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**FOR THE
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19th and
20th Centuries
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Future TIME.**

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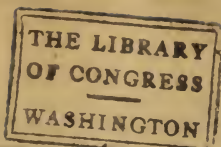
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It takes more work and material to manufacture the Briggs Piano Chair, yet the price is comparatively less than other chairs acknowledged to be practically inferior. It is the latest patented, and manufactured as the result of the failure of those already on the market, to give satisfaction. It is also admirably suitable for churches, schools, banks, offices, stenographers, type-writers and photographers; an elegant gift for lady or gentleman.

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DIRECTIONS—Adjust the chair as illustrated. Raise the seat and back by revolving the seat to the height required. Tension adjusted by releasing the single thumbscrew off inner rod, and sliding the casting downwards; readjust the tension to top of inner rod before lowering the seat, by releasing the thumbscrew, it finds its place on lowering the seat. Height of back above seat adjusted by releasing the two thumbscrews and sliding the back up or down by the lowest casting.

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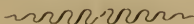
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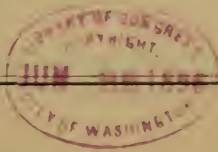
A Compendium of Calendars conveniently arranged for the Eighteenth, Nineteenth and Twentieth Centuries and for All Future Time, and Rules, Tables, Statistics and General Information of the Greatest Practical value.

A Hand-Book for Everybody.

With this Book you can quickly settle all disputes or curiosities concerning days of the week, month or year, of any past event since the commencement of the Christian Era. Future calculations are unlimited, as the Calendars are arranged to be Perpetual.



The Rules, Tables and Statistics, are some of the most useful and important ever published.



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GENERAL INSTRUCTIONS.



This book is very plain, and can be understood and used by any one after a little study of the instructions and explanations. There are herein given, Seven Common year calendars, each one beginning with a different day of the week, and seven leap year calendars, each one beginning with a different day of the week. This set of calendars will represent all time, past or future. By looking over the index you can easily find any year from 1701 to 2000 inclusive. Opposite each year is given the number of the calendar to use for that year, and in the next column is seen the number of the page on which the calendar is found. The calendar numbers corresponding with those shown in the index are given at the bottom of the calendars on pages 7, 8, 9, 10 and 11.

Each calendar, or column of months, is a complete yearly calendar for all years that begin with the same day of the week as do the years which are shown at the top of the calendars, on the left hand margin of each. It makes no difference to which century the years may belong. Leap Year Calendars are all marked with Stars and have 29 days in February, while common year calendars have only 28 days in February. The line of large figures across the top of the calendar pages, represents in regular order, (as nearly as possible) a current calendar in regular succession, terminating with the year 2000. For instance, on pages 10 and 11, you will find these dates: 1895 1896, 1897, 1898, 1899 and 1900. For dates not seen in this line, see the index for directions. 1701 is the first year of the 18th century—1800 is the last. 1801 is the first year of the 19th century and 1900 is the last. 1901 is the first year of the 20th century and 2000 is the last year. A GENERAL INDEX is given in the back part of the book.



INDEX TO CALENDARS.

This index plainly shows how to find the proper calendar to represent any particular year from 1701 to 2000 inclusive. Look in the columns of years for the desired year. Opposite the year in the next column is the number of the calendar to use for that year, (see calendar numbers at the bottom of calendars on pages 7, 8, 9, 10, 11) and opposite this number, in the next column you will find the number of the page on which the calendar is given. Leap years are marked with a *

Eighteenth Century.

YEARS	NO	PG	YEARS	NO	PG	YEARS	NO	PG	YEARS	NO	PG
1701	7	11	1726	3	10	1751	6	10	1776*	9	7
1702	1	11	1727	4	8	1752*	14	7	1777	4	8
1703	2	11	1728*	12	7	1753	2	11	1778	5	9
1704*	10	8	1729	7	11	1754	3	10	1779	6	10
1705	5	9	1730	1	11	1755	4	8	1780*	14	7
1706	6	10	1731	2	11	1756*	12	7	1781	2	11
1707	7	11	1732*	10	8	1757	7	11	1782	3	10
1708*	8	8	1733	5	9	1758	1	11	1783	4	8
1709	3	10	1734	6	10	1759	2	11	1784*	12	7
1710	4	8	1735	7	11	1760*	10	8	1785	7	11
1711	5	9	1736*	8	8	1761	5	9	1786	1	11
1712*	13	9	1737	3	10	1762	6	10	1787	2	11
1713	1	11	1738	4	8	1763	7	11	1788*	10	8
1714	2	11	1739	5	9	1764*	8	8	1789	5	9
1715	3	10	1740*	13	9	1765	3	10	1790	6	10
1716*	11	10	1741	1	11	1766	4	8	1791	7	11
1717	6	10	1742	2	11	1767	5	9	1792*	8	8
1718	7	11	1743	3	10	1768*	13	9	1793	3	10
1719	1	11	1744*	11	10	1769	1	11	1794	4	8
1720*	9	7	1745	6	10	1770	2	11	1795	5	9
1721	4	8	1746	7	11	1771	3	10	1796*	13	9
1722	5	9	1747	1	11	1772*	11	10	1797	1	11
1723	6	10	1748*	9	7	1773	6	10	1798	2	11
1724*	14	7	1749	4	8	1774	7	11	1799	3	10
1725	2	11	1750	5	9	1775	1	11	1800	4	8

Nineteenth Century.

YEARS	NO	PG	YEARS	NO	PG	YEARS	NO	PG	YEARS	NO	PG
1801	5	9	1826	1	11	1851	4	8	1876*	14	7
1802	6	10	1827	2	11	1852*	12	7	1877	2	11
1803	7	11	1828*	10	8	1853	7	11	1878	3	10
1804*	8	8	1829	5	9	1854	1	11	1879	4	8
1805	3	10	1830	6	10	1855	2	11	1880*	12	7
1806	4	8	1831	7	11	1856*	10	8	1881	7	11
1807	5	9	1832*	8	8	1857	5	9	1882	1	11
1808*	13	9	1833	3	10	1858	6	10	1883	2	11
1809	1	11	1834	4	8	1859	7	11	1884*	10	8
1810	2	11	1835	5	9	1860*	8	8	1885	5	9
1811	3	10	1836*	13	9	1861	3	10	1886	6	10
1812*	11	10	1837	1	11	1862	4	8	1887	7	11
1813	6	10	1838	2	11	1863	5	9	1888*	8	8
1814	7	11	1839	3	10	1864*	13	9	1889	3	10
1815	1	11	1840*	11	10	1865	1	11	1890	4	8
1816*	9	7	1841	6	10	1866	2	11	1891	5	9
1817	4	8	1842	7	11	1867	3	10	1892*	13	9
1818	5	9	1843	1	11	1868*	11	10	1893	1	11
1819	6	10	1844*	9	7	1869	6	10	1894	2	11
1820*	14	7	1845	4	8	1870	7	11	1895	3	10
1821	2	11	1846	5	9	1871	1	11	1896*	11	10
1822	3	10	1847	6	10	1872*	9	7	1897	6	10
1823	4	8	1848*	14	7	1873	4	8	1898	7	11
1824*	12	7	1849	2	11	1874	5	9	1899	1	11
1825	7	11	1850	3	10	1875	6	10	1900	2	11

Twentieth Century.

YEARS	NO	PG	YEARS	NO	PG	YEARS	NO	PG	YEARS	NO	PG
1901	3	10	1926	6	10	1951	2	11	1976*	12	7
1902	4	8	1927	7	11	1952*	10	8	1977	7	11
1903	5	9	1928*	8	8	1953	5	9	1978	1	11
1904*	13	9	1929	3	10	1954	6	10	1979	2	11
1905	1	11	1930	4	8	1955	7	11	1980*	10	8
1906	2	11	1931	5	9	1956*	8	8	1981	5	9
1907	3	10	1932*	13	9	1957	3	10	1982	6	10
1908*	11	10	1933	1	11	1958	4	8	1983	7	11
1909	6	10	1934	2	11	1959	5	9	1984*	8	8
1910	7	11	1935	3	10	1960*	13	9	1985	3	10
1911	1	11	1936*	11	10	1961	1	11	1986	4	8
1912*	9	7	1937	6	10	1962	2	11	1987	5	9
1913	4	8	1938	7	11	1963	3	10	1988*	13	9
1914	5	9	1939	1	11	1964*	11	10	1989	1	11
1915	6	10	1940*	9	7	1965	6	10	1990	2	11
1916*	14	7	1941	4	8	1966	7	11	1991	3	10
1917	2	11	1942	5	9	1967	1	11	1992*	11	10
1918	3	10	1943	6	10	1968*	9	7	1993	6	10
1919	4	8	1944*	14	7	1969	4	8	1994	7	11
1920*	12	7	1945	2	11	1970	5	9	1995	1	11
1921	7	11	1946	3	10	1971	6	10	1996*	9	7
1922	1	11	1947	4	8	1972*	14	7	1997	4	8
1923	2	11	1948*	12	7	1973	2	11	1998	5	9
1924*	10	8	1949	7	11	1974	3	10	1999	6	10
1925	5	9	1950	1	11	1975	4	8	2000*	14	7

NOTICE.—The calendars in this book can be used perpetually in the following manner: Simply find the day of the week with which the year begins and notice whether it is a common year, or a LEAP YEAR, and you can easily find a calendar that truly represents that year, no matter to WHICH century it may belong.



*1872	S	M	T	W	T	F	S	*1876	S	M	T	W	T	F	S	*1880	S	M	T	W	T	F	S
Jan.	1	2	3	4	5	6	7	Jan.	2	3	4	5	6	7	8	Jan.	4	5	6	7	8	9	10
	7	8	9	10	11	12	13		9	10	11	12	13	14	15		11	12	13	14	15	16	17
	14	15	16	17	18	19	20		16	17	18	19	20	21	22		18	19	20	21	22	23	24
	21	22	23	24	25	26	27		23	24	25	26	27	28	29		25	26	27	28	29	30	31
	28	29	30	31					30	31													
Feb.	4	5	6	7	8	9	10	Feb.	6	7	8	9	10	11	12	Feb.	1	2	3	4	5	6	7
	11	12	13	14	15	16	17		13	14	15	16	17	18	19		8	9	10	11	12	13	14
	18	19	20	21	22	23	24		20	21	22	23	24	25	26		15	16	17	18	19	20	21
	25	26	27	28	29				27	28	29						22	23	24	25	26	27	28
Mar.	3	4	5	6	7	8	9	Mar.	5	6	7	8	9	10	11	Mar.	7	8	9	10	11	12	13
	10	11	12	13	14	15	16		12	13	14	15	16	17	18		14	15	16	17	18	19	20
	17	18	19	20	21	22	23		19	20	21	22	23	24	25		21	22	23	24	25	26	27
	24	25	26	27	28	29	30		26	27	28	29	30	31			28	29	30	31			
	31																						
Apr.	7	8	9	10	11	12	13	Apr.	2	3	4	5	6	7	8	Apr.	4	5	6	7	8	9	10
	14	15	16	17	18	19	20		9	10	11	12	13	14	15		11	12	13	14	15	16	17
	21	22	23	24	25	26	27		16	17	18	19	20	21	22		18	19	20	21	22	23	24
	28	29	30						23	24	25	26	27	28	29		25	26	27	28	29	30	
									30														
May	5	6	7	8	9	10	11	May	7	8	9	10	11	12	13	May	9	10	11	12	13	14	15
	12	13	14	15	16	17	18		14	15	16	17	18	19	20		16	17	18	19	20	21	22
	19	20	21	22	23	24	25		21	22	23	24	25	26	27		23	24	25	26	27	28	29
	26	27	28	29	30	31			28	29	30	31					30	31					
June	2	3	4	5	6	7	8	June	4	5	6	7	8	9	10	June	6	7	8	9	10	11	12
	9	10	11	12	13	14	15		11	12	13	14	15	16	17		13	14	15	16	17	18	19
	16	17	18	19	20	21	22		18	19	20	21	22	23	24		20	21	22	23	24	25	26
	23	24	25	26	27	28	29		25	26	27	28	29	30			27	28	29	30			
	30																						
July	7	8	9	10	11	12	13	July	2	3	4	5	6	7	8	July	4	5	6	7	8	9	10
	14	15	16	17	18	19	20		9	10	11	12	13	14	15		11	12	13	14	15	16	17
	21	22	23	24	25	26	27		16	17	18	19	20	21	22		18	19	20	21	22	23	24
	28	29	30	31					23	24	25	26	27	28	29		25	26	27	28	29	30	31
									30	31													
Aug.	4	5	6	7	8	9	10	Aug.	6	7	8	9	10	11	12	Aug.	8	9	10	11	12	13	14
	11	12	13	14	15	16	17		13	14	15	16	17	18	19		15	16	17	18	19	20	21
	18	19	20	21	22	23	24		20	21	22	23	24	25	26		22	23	24	25	26	27	28
	25	26	27	28	29	30	31		27	28	29	30	31				29	30	31				
Sept.	1	2	3	4	5	6	7	Sept.	3	4	5	6	7	8	9	Sept.	5	6	7	8	9	10	11
	8	9	10	11	12	13	14		10	11	12	13	14	15	16		12	13	14	15	16	17	18
	15	16	17	18	19	20	21		17	18	19	20	21	22	23		19	20	21	22	23	24	25
	22	23	24	25	26	27	28		24	25	26	27	28	29	30		26	27	28	29	30		
	29	30																					
Oct.	6	7	8	9	10	11	12	Oct.	8	9	10	11	12	13	14	Oct.	10	11	12	13	14	15	16
	13	14	15	16	17	18	19		15	16	17	18	19	20	21		17	18	19	20	21	22	23
	20	21	22	23	24	25	26		22	23	24	25	26	27	28		24	25	26	27	28	29	30
	27	28	29	30	31				29	30	31						31						
Nov.	3	4	5	6	7	8	9	Nov.	5	6	7	8	9	10	11	Nov.	7	8	9	10	11	12	13
	10	11	12	13	14	15	16		12	13	14	15	16	17	18		14	15	16	17	18	19	20
	17	18	19	20	21	22	23		19	20	21	22	23	24	25		21	22	23	24	25	26	27
	24	25	26	27	28	29	30		26	27	28	29	30				28	29	30				
Dec.	1	2	3	4	5	6	7	Dec.	3	4	5	6	7	8	9	Dec.	5	6	7	8	9	10	11
	8	9	10	11	12	13	14		10	11	12	13	14	15	16		12	13	14	15	16	17	18
	15	16	17	18	19	20	21		17	18	19	20	21	22	23		19	20	21	22	23	24	25
	22	23	24	25	26	27	28		24	25	26	27	28	29	30		26	27	28	29	30	31	
	29	30	31						31														

* 1884	S	M	T	W	T	F	S	* 1888	S	M	T	W	T	F	S	1890	S	M	T	W	T	F	S
Jan.	6	7	1	2	3	4	5	Jan.	1	2	3	4	5	6	7	Jan.	5	6	7	8	9	10	11
	13	14	15	16	17	18	19		15	16	17	18	19	20	21		12	13	14	15	16	17	18
	20	21	22	23	24	25	26		22	23	24	25	26	27	28		19	20	21	22	23	24	25
	27	28	29	30	31				29	30	31						26	27	28	29	30	31	
Feb.	3	4	5	6	7	8	9	Feb.	5	6	7	8	9	10	11	Feb.	2	3	4	5	6	7	8
	10	11	12	13	14	15	16		12	13	14	15	16	17	18		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		19	20	21	22	23	24	25		16	17	18	19	20	21	22
	24	25	26	27	28	29			26	27	28	29					23	24	25	26	27	28	
Mar.	2	3	4	5	6	7	8	Mar.	4	5	6	7	8	9	10	Mar.	2	3	4	5	6	7	8
	9	10	11	12	13	14	15		11	12	13	14	15	16	17		9	10	11	12	13	14	15
	16	17	18	19	20	21	22		18	19	20	21	22	23	24		16	17	18	19	20	21	22
	23	24	25	26	27	28	29		25	26	27	28	29	30	31		23	24	25	26	27	28	29
	30	31															30	31					
Apr.	6	7	8	9	10	11	12	Apr.	1	2	3	4	5	6	7	Apr.	6	7	8	9	10	11	12
	13	14	15	16	17	18	19		15	16	17	18	19	20	21		13	14	15	16	17	18	19
	20	21	22	23	24	25	26		22	23	24	25	26	27	28		20	21	22	23	24	25	26
	27	28	29	30					29	30							27	28	29	30			
May	4	5	6	7	8	9	10	May	6	7	8	9	10	11	12	May	4	5	6	7	8	9	10
	11	12	13	14	15	16	17		13	14	15	16	17	18	19		11	12	13	14	15	16	17
	18	19	20	21	22	23	24		20	21	22	23	24	25	26		18	19	20	21	22	23	24
	25	26	27	28	29	30	31		27	28	29	30	31				25	26	27	28	29	30	31
June	1	2	3	4	5	6	7	June	3	4	5	6	7	8	9	June	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		10	11	12	13	14	15	16		8	9	10	11	12	13	14
	15	16	17	18	19	20	21		17	18	19	20	21	22	23		15	16	17	18	19	20	21
	22	23	24	25	26	27	28		24	25	26	27	28	29	30		22	23	24	25	26	27	28
	29	30															29	30					
July	1	2	3	4	5	6	7	July	1	2	3	4	5	6	7	July	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		8	9	10	11	12	13	14		6	7	8	9	10	11	12
	15	16	17	18	19	20	21		15	16	17	18	19	20	21		13	14	15	16	17	18	19
	22	23	24	25	26	27	28		22	23	24	25	26	27	28		20	21	22	23	24	25	26
	29	30	31						29	30	31						27	28	29	30	31		
Aug.	3	4	5	6	7	8	9	Aug.	5	6	7	8	9	10	11	Aug.	3	4	5	6	7	8	9
	10	11	12	13	14	15	16		12	13	14	15	16	17	18		10	11	12	13	14	15	16
	17	18	19	20	21	22	23		19	20	21	22	23	24	25		17	18	19	20	21	22	23
	24	25	26	27	28	29	30		26	27	28	29	30	31			24	25	26	27	28	29	30
	31																31						
Sept.	1	2	3	4	5	6	7	Sept.	2	3	4	5	6	7	8	Sept.	7	8	9	10	11	12	13
	7	8	9	10	11	12	13		9	10	11	12	13	14	15		14	15	16	17	18	19	20
	14	15	16	17	18	19	20		16	17	18	19	20	21	22		21	22	23	24	25	26	27
	21	22	23	24	25	26	27		23	24	25	26	27	28	29		28	29	30				
	28	29	30						30														
Oct.	5	6	7	8	9	10	11	Oct.	7	8	9	10	11	12	13	Oct.	5	6	7	8	9	10	11
	12	13	14	15	16	17	18		14	15	16	17	18	19	20		12	13	14	15	16	17	18
	19	20	21	22	23	24	25		21	22	23	24	25	26	27		19	20	21	22	23	24	25
	26	27	28	29	30	31			28	29	30	31					26	27	28	29	30	31	
Nov.	2	3	4	5	6	7	8	Nov.	4	5	6	7	8	9	10	Nov.	2	3	4	5	6	7	8
	9	10	11	12	13	14	15		11	12	13	14	15	16	17		9	10	11	12	13	14	15
	16	17	18	19	20	21	22		18	19	20	21	22	23	24		16	17	18	19	20	21	22
	23	24	25	26	27	28	29		25	26	27	28	29	30			23	24	25	26	27	28	29
	30																30						
Dec.	7	8	9	10	11	12	13	Dec.	2	3	4	5	6	7	8	Dec.	7	8	9	10	11	12	13
	14	15	16	17	18	19	20		9	10	11	12	13	14	15		14	15	16	17	18	19	20
	21	22	23	24	25	26	27		16	17	18	19	20	21	22		21	22	23	24	25	26	27
	28	29	30	31					23	24	25	26	27	28	29		28	29	30	31			

1891	S	M	T	W	T	F	S	*	1892	S	M	T	W	T	F	S	1894	S	M	T	W	T	F	S
Jan.	1	2	3	4	5	6	7		Jan.	1	2	3	4	5	6	7	Jan.	1	2	3	4	5	6	7
Feb.	8	9	10	11	12	13	14		Feb.	8	9	10	11	12	13	14	Feb.	8	9	10	11	12	13	14
Mar.	15	16	17	18	19	20	21		Mar.	15	16	17	18	19	20	21	Mar.	15	16	17	18	19	20	21
Apr.	22	23	24	25	26	27	28		Apr.	22	23	24	25	26	27	28	Apr.	22	23	24	25	26	27	28
May	29	30	31						May	29	30	31					May	29	30	31				
June									June								June							
July									July								July							
Aug.									Aug.								Aug.							
Sept.									Sept.								Sept.							
Oct.									Oct.								Oct.							
Nov.									Nov.								Nov.							
Dec.									Dec.								Dec.							

1895	S	M	T	W	T	F	S	*	1896	S	M	T	W	T	F	S	1897	S	M	T	W	T	F	S
Jan.	6	7	8	9	10	11	12		Jan.	5	6	7	8	9	10	11	Jan.	3	4	5	6	7	8	9
	13	14	15	16	17	18	19			12	13	14	15	16	17	18		10	11	12	13	14	15	16
	20	21	22	23	24	25	26		Feb.	19	20	21	22	23	24	25	Feb.	17	18	19	20	21	22	23
	27	28	29	30	31					26	27	28	29	30	31			24	25	26	27	28	29	30
																		31						
Feb.	3	4	5	6	7	8	9		Feb.	2	3	4	5	6	7	8	Feb.	1	2	3	4	5	6	
	10	11	12	13	14	15	16			9	10	11	12	13	14	15		7	8	9	10	11	12	13
	17	18	19	20	21	22	23			16	17	18	19	20	21	22		14	15	16	17	18	19	20
	24	25	26	27	28					23	24	25	26	27	28	29		21	22	23	24	25	26	27
																		28						
Mar.	3	4	5	6	7	8	9		Mar.	1	2	3	4	5	6	7	Mar.	1	2	3	4	5	6	
	10	11	12	13	14	15	16			8	9	10	11	12	13	14		7	8	9	10	11	12	13
	17	18	19	20	21	22	23			15	16	17	18	19	20	21		14	15	16	17	18	19	20
	24	25	26	27	28	29	30			22	23	24	25	26	27	28		21	22	23	24	25	26	27
	31									29	30	31						28	29	30	31			
Apr.	7	8	9	10	11	12	13		Apr.	5	6	7	8	9	10	11	Apr.	4	5	6	7	8	9	10
	14	15	16	17	18	19	20			12	13	14	15	16	17	18		11	12	13	14	15	16	17
	21	22	23	24	25	26	27			19	20	21	22	23	24	25		18	19	20	21	22	23	24
	28	29	30							26	27	28	29	30				25	26	27	28	29	30	
May	5	6	7	8	9	10	11		May	3	4	5	6	7	8	9	May	2	3	4	5	6	7	8
	12	13	14	15	16	17	18			10	11	12	13	14	15	16		9	10	11	12	13	14	15
	19	20	21	22	23	24	25			17	18	19	20	21	22	23		16	17	18	19	20	21	22
	26	27	28	29	30	31				24	25	26	27	28	29	30		23	24	25	26	27	28	29
										31								30	31					
June	2	3	4	5	6	7	8		June	1	2	3	4	5	6		June	1	2	3	4	5		
	9	10	11	12	13	14	15			7	8	9	10	11	12	13		6	7	8	9	10	11	12
	16	17	18	19	20	21	22			14	15	16	17	18	19	20		13	14	15	16	17	18	19
	23	24	25	26	27	28	29			21	22	23	24	25	26	27		20	21	22	23	24	25	26
	30									28	29	30						27	28	29	30			
July	7	8	9	10	11	12	13		July	5	6	7	8	9	10	11	July	4	5	6	7	8	9	10
	14	15	16	17	18	19	20			12	13	14	15	16	17	18		11	12	13	14	15	16	17
	21	22	23	24	25	26	27			19	20	21	22	23	24	25		18	19	20	21	22	23	24
	28	29	30	31						26	27	28	29	30	31			25	26	27	28	29	30	31
Aug.	4	5	6	7	8	9	10		Aug.	2	3	4	5	6	7	8	Aug.	1	2	3	4	5	6	7
	11	12	13	14	15	16	17			9	10	11	12	13	14	15		8	9	10	11	12	13	14
	18	19	20	21	22	23	24			16	17	18	19	20	21	22		15	16	17	18	19	20	21
	25	26	27	28	29	30	31			23	24	25	26	27	28	29		22	23	24	25	26	27	28
										30	31							29	30	31				
Sept.	1	2	3	4	5	6	7		Sept.	1	2	3	4	5			Sept.	5	6	7	8	9	10	11
	8	9	10	11	12	13	14			6	7	8	9	10	11	12		12	13	14	15	16	17	18
	15	16	17	18	19	20	21			13	14	15	16	17	18	19		19	20	21	22	23	24	25
	22	23	24	25	26	27	28			20	21	22	23	24	25	26		26	27	28	29	30		
	29	30								27	28	29	30											
Oct.	6	7	8	9	10	11	12		Oct.	4	5	6	7	8	9	10	Oct.	3	4	5	6	7	8	9
	13	14	15	16	17	18	19			11	12	13	14	15	16	17		10	11	12	13	14	15	16
	20	21	22	23	24	25	26			18	19	20	21	22	23	24		17	18	19	20	21	22	23
	27	28	29	30	31					25	26	27	28	29	30	31		24	25	26	27	28	29	30
																		31						
Nov.	3	4	5	6	7	8	9		Nov.	1	2	3	4	5	6	7	Nov.	1	2	3	4	5	6	
	10	11	12	13	14	15	16			8	9	10	11	12	13	14		7	8	9	10	11	12	13
	17	18	19	20	21	22	23			15	16	17	18	19	20	21		14	15	16	17	18	19	20
	24	25	26	27	28	29	30			22	23	24	25	26	27	28		21	22	23	24	25	26	27
										29	30							28	29	30				
Dec.	1	2	3	4	5	6	7		Dec.	1	2	3	4	5			Dec.	5	6	7	8	9	10	11
	8	9	10	11	12	13	14			6	7	8	9	10	11	12		12	13	14	15	16	17	18
	15	16	17	18	19	20	21			13	14	15	16	17	18	19		19	20	21	22	23	24	25
	22	23	24	25	26	27	28			20	21	22	23	24	25	26		26	27	28	29	30	31	
	29	30	31							27	28	29	30	31										

PERPETUAL CALENDAR AND REFERENCE BOOK.

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1898	S	M	T	W	T	F	S	1899	S	M	T	W	T	F	S	1900	S	M	T	W	T	F	S	
Jan.	2	3	4	5	6	7	8	Jan.	1	2	3	4	5	6	7	Jan.	1	2	3	4	5	6	7	
	9	10	11	12	13	14	15		8	9	10	11	12	13	14		7	8	9	10	11	12	13	
	16	17	18	19	20	21	22		15	16	17	18	19	20	21		14	15	16	17	18	19	20	
	23	24	25	26	27	28	29		22	23	24	25	26	27	28		21	22	23	24	25	26	27	
	30	31							29	30	31						28	29	30	31				
Feb.			1	2	3	4	5	Feb.				1	2	3	4	Feb.				1	2	3		
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24	
	27	28							26	27	28						25	26	27	28				
Mar.			1	2	3	4	5	Mar.				1	2	3	4	Mar.				1	2	3		
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24	
	27	28	29	30	31				26	27	28	29	30	31			25	26	27	28	29	30	31	
Apr.						1	2	Apr.							1	Apr.								
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		1	2	3	4	5	6	7	
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		8	9	10	11	12	13	14	
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		15	16	17	18	19	20	21	
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		22	23	24	25	26	27	28	
									30								29	30						
May		1	2	3	4	5	6	May		1	2	3	4	5	6	May		1	2	3	4	5		
	7	8	9	10	11	12	13		7	8	9	10	11	12	13		6	7	8	9	10	11	12	
	15	16	17	18	19	20	21		14	15	16	17	18	19	20		13	14	15	16	17	18	19	
	22	23	24	25	26	27	28		21	22	23	24	25	26	27		20	21	22	23	24	25	26	
	29	30	31						28	29	30	31					27	28	29	30	31			
June				1	2	3	4	June							1	June								
	5	6	7	8	9	10	11		4	5	6	7	8	9	10		3	4	5	6	7	8	9	
	12	13	14	15	16	17	18		11	12	13	14	15	16	17		10	11	12	13	14	15	16	
	19	20	21	22	23	24	25		18	19	20	21	22	23	24		17	18	19	20	21	22	23	
	26	27	28	29	30				25	26	27	28	29	30			24	25	26	27	28	29	30	
July						1	2	July							1	July								
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		1	2	3	4	5	6	7	
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		8	9	10	11	12	13	14	
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		15	16	17	18	19	20	21	
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		22	23	24	25	26	27	28	
	31								30	31							29	30	31					
Aug.		1	2	3	4	5	6	Aug.			1	2	3	4	5	Aug.								
	7	8	9	10	11	12	13		6	7	8	9	10	11	12		5	6	7	8	9	10	11	
	14	15	16	17	18	19	20		13	14	15	16	17	18	19		12	13	14	15	16	17	18	
	21	22	23	24	25	26	27		20	21	22	23	24	25	26		19	20	21	22	23	24	25	
	28	29	30	31					27	28	29	30	31				26	27	28	29	30	31		
Sept.						1	2	Sept.							1	Sept.								
	4	5	6	7	8	9	10		3	4	5	6	7	8	9		2	3	4	5	6	7	8	
	11	12	13	14	15	16	17		10	11	12	13	14	15	16		9	10	11	12	13	14	15	
	18	19	20	21	22	23	24		17	18	19	20	21	22	23		16	17	18	19	20	21	22	
	25	26	27	28	29	30			24	25	26	27	28	29	30		23	24	25	26	27	28	29	
																	30							
Oct.		2	3	4	5	6	7	Oct.		1	2	3	4	5	6	7	Oct.		1	2	3	4	5	6
	9	10	11	12	13	14	15		8	9	10	11	12	13	14		7	8	9	10	11	12	13	
	16	17	18	19	20	21	22		15	16	17	18	19	20	21		14	15	16	17	18	19	20	
	23	24	25	26	27	28	29		22	23	24	25	26	27	28		21	22	23	24	25	26	27	
	30	31							29	30	31						28	29	30	31				
Nov.			1	2	3	4	5	Nov.				1	2	3	4	Nov.					1	2	3	
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24	
	27	28	29	30					26	27	28	29	30				25	26	27	28	29	30		
Dec.						1	2	Dec.							1	Dec.								
	4	5	6	7	8	9	10		3	4	5	6	7	8	9		2	3	4	5	6	7	8	
	11	12	13	14	15	16	17		10	11	12	13	14	15	16		9	10	11	12	13	14	15	
	18	19	20	21	22	23	24		17	18	19	20	21	22	23		16	17	18	19	20	21	22	
	25	26	27	28	29	30	31		24	25	26	27	28	29	30		23	24	25	26	27	28	29	
									31								30	31						

A CENTENNIAL CALENDAR.

(19TH CENTURY)

This table will show the day of the week on which a person was born, or of any other event within the 19th century, when the year and day of the month are known.

YEARS 1801 TO 1900 INCLUSIVE.

YEARS 1801 TO 1900 INCLUSIVE.	31 Jan.	28 Feb.	31 Mar.	30 April.	31 May.	30 June.	31 July.	31 Aug.	30 Sept.	31 Oct.	30 Nov.	31 Dec.
1801	1818	1829	1835	1846	1857	1868	1871	1885	1891	1	7	7
1802	1813	1819	1830	1841	1847	1858	1869	1875	1886	1897	5	2
1803	1814	1825	1831	1842	1853	1859	1870	1881	1887	1898	6	3
1804	1811	1822	1833	1839	1850	1861	1867	1878	1889	1895	2	5
1805	1817	1828	1834	1845	1851	1862	1873	1879	1890	1	3	6
1806	1815	1826	1837	1843	1854	1865	1871	1882	1893	1899	7	4
1807	1821	1827	1838	1849	1855	1866	1872	1883	1894	1900	1	3
1808	1832	1838	1849	1855	1866	1872	1883	1894	1900	1	3	4
1809	1841	1847	1858	1864	1875	1881	1892	1898	1909	1	4	5
1810	1850	1856	1867	1873	1884	1890	1901	1	5	6	6	6
1811	1859	1865	1876	1882	1893	1900	1	6	7	7	7	7
1812	1868	1874	1885	1891	1902	1	7	8	8	8	8	8
1813	1877	1883	1894	1900	1	8	9	9	9	9	9	9
1814	1886	1892	1903	1	9	10	10	10	10	10	10	10
1815	1895	1901	1	11	11	11	11	11	11	11	11	11
1816	1904	1	12	12	12	12	12	12	12	12	12	12
1817	1	13	13	13	13	13	13	13	13	13	13	13
1818	12	14	14	14	14	14	14	14	14	14	14	14
1819	13	15	15	15	15	15	15	15	15	15	15	15
1820	14	16	16	16	16	16	16	16	16	16	16	16
1821	15	17	17	17	17	17	17	17	17	17	17	17
1822	16	18	18	18	18	18	18	18	18	18	18	18
1823	17	19	19	19	19	19	19	19	19	19	19	19
1824	18	20	20	20	20	20	20	20	20	20	20	20
1825	19	21	21	21	21	21	21	21	21	21	21	21
1826	20	22	22	22	22	22	22	22	22	22	22	22
1827	21	23	23	23	23	23	23	23	23	23	23	23
1828	22	24	24	24	24	24	24	24	24	24	24	24
1829	23	25	25	25	25	25	25	25	25	25	25	25
1830	24	26	26	26	26	26	26	26	26	26	26	26
1831	25	27	27	27	27	27	27	27	27	27	27	27
1832	26	28	28	28	28	28	28	28	28	28	28	28
1833	27	29	29	29	29	29	29	29	29	29	29	29
1834	28	30	30	30	30	30	30	30	30	30	30	30
1835	29	31	31	31	31	31	31	31	31	31	31	31
1836	30	1	1	1	1	1	1	1	1	1	1	1
1837	31	2	2	2	2	2	2	2	2	2	2	2
1838	1	3	3	3	3	3	3	3	3	3	3	3
1839	2	4	4	4	4	4	4	4	4	4	4	4
1840	3	5	5	5	5	5	5	5	5	5	5	5
1841	4	6	6	6	6	6	6	6	6	6	6	6
1842	5	7	7	7	7	7	7	7	7	7	7	7
1843	6	8	8	8	8	8	8	8	8	8	8	8
1844	7	9	9	9	9	9	9	9	9	9	9	9
1845	8	10	10	10	10	10	10	10	10	10	10	10
1846	9	11	11	11	11	11	11	11	11	11	11	11
1847	10	12	12	12	12	12	12	12	12	12	12	12
1848	11	13	13	13	13	13	13	13	13	13	13	13
1849	12	14	14	14	14	14	14	14	14	14	14	14
1850	13	15	15	15	15	15	15	15	15	15	15	15
1851	14	16	16	16	16	16	16	16	16	16	16	16
1852	15	17	17	17	17	17	17	17	17	17	17	17
1853	16	18	18	18	18	18	18	18	18	18	18	18
1854	17	19	19	19	19	19	19	19	19	19	19	19
1855	18	20	20	20	20	20	20	20	20	20	20	20
1856	19	21	21	21	21	21	21	21	21	21	21	21
1857	20	22	22	22	22	22	22	22	22	22	22	22
1858	21	23	23	23	23	23	23	23	23	23	23	23
1859	22	24	24	24	24	24	24	24	24	24	24	24
1860	23	25	25	25	25	25	25	25	25	25	25	25
1861	24	26	26	26	26	26	26	26	26	26	26	26
1862	25	27	27	27	27	27	27	27	27	27	27	27
1863	26	28	28	28	28	28	28	28	28	28	28	28
1864	27	29	29	29	29	29	29	29	29	29	29	29
1865	28	30	30	30	30	30	30	30	30	30	30	30
1866	29	31	31	31	31	31	31	31	31	31	31	31
1867	30	1	1	1	1	1	1	1	1	1	1	1
1868	31	2	2	2	2	2	2	2	2	2	2	2
1869	1	3	3	3	3	3	3	3	3	3	3	3
1870	2	4	4	4	4	4	4	4	4	4	4	4
1871	3	5	5	5	5	5	5	5	5	5	5	5
1872	4	6	6	6	6	6	6	6	6	6	6	6
1873	5	7	7	7	7	7	7	7	7	7	7	7
1874	6	8	8	8	8	8	8	8	8	8	8	8
1875	7	9	9	9	9	9	9	9	9	9	9	9
1876	8	10	10	10	10	10	10	10	10	10	10	10
1877	9	11	11	11	11	11	11	11	11	11	11	11
1878	10	12	12	12	12	12	12	12	12	12	12	12
1879	11	13	13	13	13	13	13	13	13	13	13	13
1880	12	14	14	14	14	14	14	14	14	14	14	14
1881	13	15	15	15	15	15	15	15	15	15	15	15
1882	14	16	16	16	16	16	16	16	16	16	16	16
1883	15	17	17	17	17	17	17	17	17	17	17	17
1884	16	18	18	18	18	18	18	18	18	18	18	18
1885	17	19	19	19	19	19	19	19	19	19	19	19
1886	18	20	20	20	20	20	20	20	20	20	20	20
1887	19	21	21	21	21	21	21	21	21	21	21	21
1888	20	22	22	22	22	22	22	22	22	22	22	22
1889	21	23	23	23	23	23	23	23	23	23	23	23
1890	22	24	24	24	24	24	24	24	24	24	24	24
1891	23	25	25	25	25	25	25	25	25	25	25	25
1892	24	26	26	26	26	26	26	26	26	26	26	26
1893	25	27	27	27	27	27	27	27	27	27	27	27
1894	26	28	28	28	28	28	28	28	28	28	28	28
1895	27	29	29	29	29	29	29	29	29	29	29	29
1896	28	30	30	30	30	30	30	30	30	30	30	30
1897	29	31	31	31	31	31	31	31	31	31	31	31
1898	30	1	1	1	1	1	1	1	1	1	1	1
1899	31	2	2	2	2	2	2	2	2	2	2	2
1900	1	3	3	3	3	3	3	3	3	3	3	3

There are 24 leap years in the 18th Century, 24 in the 19th, and 25 in the 20th Century.

1901	S	M	T	W	T	F	S	1902	S	M	T	W	T	F	S	1903	S	M	T	W	T	F	S	
Jan.	..	..	1	2	3	4	5	Jan.	..	..	1	2	3	4	5	Jan.	..	..	1	2	3	4	5	
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24	
	27	28	29	30	31	..	..		26	27	28	29	30	31	..		25	26	27	28	29	30	31	
Feb.	..	..	..	..	..	1	2	Feb.	..	..	..	..	..	..	1	Feb.	..	..	..	..	..	..	..	
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		1	2	3	4	5	6	7	
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		8	9	10	11	12	13	14	
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		15	16	17	18	19	20	21	
	24	25	26	27	28	..	..		23	24	25	26	27	28	..		22	23	24	25	26	27	28	
Mar.	..	..	..	..	..	1	2	Mar.	..	..	..	..	..	..	1	Mar.	..	..	..	..	..	..	..	
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		1	2	3	4	5	6	7	
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		8	9	10	11	12	13	14	
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		15	16	17	18	19	20	21	
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		22	23	24	25	26	27	28	
	31	..	..	..	..	..	..		30	31	..	..	..	..	..		29	30	31	..	..	..	..	
Apr.	..	1	2	3	4	5	6	Apr.	..	..	1	2	3	4	5	Apr.	..	..	..	1	2	3	4	
	7	8	9	10	11	12	13		6	7	8	9	10	11	12		5	6	7	8	9	10	11	
	14	15	16	17	18	19	20		13	14	15	16	17	18	19		12	13	14	15	16	17	18	
	21	22	23	24	25	26	27		20	21	22	23	24	25	26		19	20	21	22	23	24	25	
	28	29	30	..	..	..	..		27	28	29	30	..	..	..		26	27	28	29	30	..	..	
May	..	..	..	1	2	3	4	May	..	..	..	..	1	2	3	May	..	..	..	..	1	2	3	4
	5	6	7	8	9	10	11		4	5	6	7	8	9	10		3	4	5	6	7	8	9	
	12	13	14	15	16	17	18		11	12	13	14	15	16	17		10	11	12	13	14	15	16	
	19	20	21	22	23	24	25		18	19	20	21	22	23	24		17	18	19	20	21	22	23	
	26	27	28	29	30	31	..		25	26	27	28	29	30	31		24	25	26	27	28	29	30	
June	..	2	3	4	5	6	7	June	1	2	3	4	5	6	7	June	..	..	..	..	1	2	3	4
	9	10	11	12	13	14	15		8	9	10	11	12	13	14		7	8	9	10	11	12	13	
	16	17	18	19	20	21	22		15	16	17	18	19	20	21		14	15	16	17	18	19	20	
	23	24	25	26	27	28	29		22	23	24	25	26	27	28		11	12	13	14	15	16	17	
	30	..	..	..	..	..	..		29	30	..	..	..	..	..		28	29	30	..	..	..	..	
July	..	1	2	3	4	5	6	July	..	..	1	2	3	4	5	July	..	..	..	1	2	3	4	
	7	8	9	10	11	12	13		6	7	8	9	10	11	12		5	6	7	8	9	10	11	
	14	15	16	17	18	19	20		13	14	15	16	17	18	19		12	13	14	15	16	17	18	
	21	22	23	24	25	26	27		20	21	22	23	24	25	26		19	20	21	22	23	24	25	
	28	29	30	31	..	..	..		27	28	29	30	31	..	..		26	27	28	29	30	31	..	
Aug.	..	..	..	..	1	2	3	Aug.	..	..	..	..	1	2	3	Aug.	..	..	..	..	1	2	3	4
	4	5	6	7	8	9	10		3	4	5	6	7	8	9		2	3	4	5	6	7	8	
	11	12	13	14	15	16	17		10	11	12	13	14	15	16		9	10	11	12	13	14	15	
	18	19	20	21	22	23	24		17	18	19	20	21	22	23		16	17	18	19	20	21	22	
	25	26	27	28	29	30	31		24	25	26	27	28	29	30		23	24	25	26	27	28	29	
Sept.	..	1	2	3	4	5	6	Sept.	..	1	2	3	4	5	6	Sept.	..	..	1	2	3	4	5	
	8	9	10	11	12	13	14		7	8	9	10	11	12	13		6	7	8	9	10	11	12	
	15	16	17	18	19	20	21		14	15	16	17	18	19	20		13	14	15	16	17	18	19	
	22	23	24	25	26	27	28		21	22	23	24	25	26	27		20	21	22	23	24	25	26	
	29	30	..	..	..	..	..		28	29	30	..	..	..	..		27	28	29	30	..	..	..	
Oct.	..	..	1	2	3	4	5	Oct.	..	..	1	2	3	4	5	Oct.	..	..	..	1	2	3	4	5
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24	
	27	28	29	30	31	..	..		26	27	28	29	30	31	..		25	26	27	28	29	30	31	
Nov.	..	..	..	..	1	2	3	Nov.	..	..	..	..	1	2	3	Nov.	..	..	..	..	1	2	3	4
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		1	2	3	4	5	6	7	
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		8	9	10	11	12	13	14	
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		15	16	17	18	19	20	21	
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		22	23	24	25	26	27	28	
	30	31	..	..	..	..	..		30	31	..	..	..	..	..		29	30	31	..	..	..	..	
Dec.	..	1	2	3	4	5	6	Dec.	..	1	2	3	4	5	6	Dec.	..	..	1	2	3	4	5	
	8	9	10	11	12	13	14		7	8	9	10	11	12	13		6	7	8	9	10	11	12	
	15	16	17	18	19	20	21		14	15	16	17	18	19	20		13	14	15	16	17	18	19	
	22	23	24	25	26	27	28		21	22	23	24	25	26	27		20	21	22	23	24	25	26	
	29	30	31	..	..	..	..		28	29	30	31	..	..	..		27	28	29	30	31	..	..	

* 1904													1905													1906												
	S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S															
Jan.	3	4	5	6	7	8	9	Jan.	1	2	3	4	5	6	7	Jan.	1	2	3	4	5	6	7															
	10	11	12	13	14	15	16		8	9	10	11	12	13	14		7	8	9	10	11	12	13															
	17	18	19	20	21	22	23		15	16	17	18	19	20	21		14	15	16	17	18	19	20															
	24	25	26	27	28	29	30		22	23	24	25	26	27	28		21	22	23	24	25	26	27															
	31								29	30	31						28	29	30	31																		
Feb.		1	2	3	4	5	6	Feb.			1	2	3	4		Feb.			1	2	3																	
	7	8	9	10	11	12	13		5	6	7	8	9	10	11		4	5	6	7	8	9	10															
	14	15	16	17	18	19	20		12	13	14	15	16	17	18		11	12	13	14	15	16	17															
	21	22	23	24	25	26	27		19	20	21	22	23	24	25		18	19	20	21	22	23	24															
	28	29							26	27	28						25	26	27	28																		
Mar.			1	2	3	4	5	Mar.			1	2	3	4		Mar.			1	2	3																	
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10															
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17															
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24															
	27	28	29	30	31				26	27	28	29	30	31			25	26	27	28	29	30	31															
Apr.						1	2	Apr.			2	3	4	5	6	7	Apr.			2	3	4	5	6														
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		8	9	10	11	12	13	14															
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		15	16	17	18	19	20	21															
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		22	23	24	25	26	27	28															
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		29	30																				
									30																													
May		1	2	3	4	5	6	May		1	2	3	4	5	6		May			1	2	3	4	5														
	8	9	10	11	12	13	14		7	8	9	10	11	12	13		13	14	15	16	17	18	19															
	15	16	17	18	19	20	21		14	15	16	17	18	19	20		20	21	22	23	24	25	26															
	22	23	24	25	26	27	28		21	22	23	24	25	26	27		27	28	29	30	31																	
	29	30	31						28	29	30	31																										
June				1	2	3	4	June				1	2	3		June				1	2																	
	5	6	7	8	9	10	11		4	5	6	7	8	9	10		10	11	12	13	14	15	16															
	12	13	14	15	16	17	18		11	12	13	14	15	16	17		17	18	19	20	21	22	23															
	19	20	21	22	23	24	25		18	19	20	21	22	23	24		24	25	26	27	28	29	30															
	26	27	28	29	30				25	26	27	28	29	30																								
July							1	July							1	July																						
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		8	9	10	11	12	13	14															
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		15	16	17	18	19	20	21															
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		22	23	24	25	26	27	28															
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		29	30	31																			
	31								30	31																												
Aug.		1	2	3	4	5	6	Aug.			1	2	3	4	5		Aug.			1	2	3	4	5														
	7	8	9	10	11	12	13		6	7	8	9	10	11	12		12	13	14	15	16	17	18															
	14	15	16	17	18	19	20		13	14	15	16	17	18	19		19	20	21	22	23	24	25															
	21	22	23	24	25	26	27		20	21	22	23	24	25	26		26	27	28	29	30	31																
	28	29	30	31					27	28	29	30	31																									
Sept.						1	2	Sept.						1	2	Sept.																						
	4	5	6	7	8	9	10		3	4	5	6	7	8	9		9	10	11	12	13	14	15															
	11	12	13	14	15	16	17		10	11	12	13	14	15	16		16	17	18	19	20	21	22															
	18	19	20	21	22	23	24		17	18	19	20	21	22	23		23	24	25	26	27	28	29															
	25	26	27	28	29	30			24	25	26	27	28	29	30		30																					
Oct.							1	Oct.		1	2	3	4	5	6	7	Oct.		1	2	3	4	5	6														
	2	3	4	5	6	7	8		8	9	10	11	12	13	14		14	15	16	17	18	19	20															
	9	10	11	12	13	14	15		15	16	17	18	19	20	21		21	22	23	24	25	26	27															
	16	17	18	19	20	21	22		22	23	24	25	26	27	28		28	29	30	31																		
	23	24	25	26	27	28	29		29	30	31																											
	30	31																																				
Nov.			1	2	3	4	5	Nov.			1	2	3	4		Nov.				1	2	3																
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		11	12	13	14	15	16	17															
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		18	19	20	21	22	23	24															
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		25	26	27	28	29	30																
	27	28	29	30					26	27	28	29	30																									
Dec.					1	2	3	Dec.		3	4	5	6	7	8	9	Dec.		3	4	5	6	7	8														
	4	5	6	7	8	9	10		10	11	12	13	14	15	16		16	17	18	19	20	21	22															
	11	12	13	14	15	16	17		17	18	19	20	21	22	23		23	24	25	26	27	28	29															
	18	19	20	21	22	23	24		24	25	26	27	28	29	30		30	31																				
	25	26	27	28	29	30	31		31																													

EXTRA CALENDARS, FOR HANOV REFERENCE

* 1908	S	M	T	W	T	F	S	1909	S	M	T	W	T	F	S	1910	S	M	T	W	T	F	S
Jan.	5	6	7	8	9	10	11	Jan.	3	4	5	6	7	8	9	Jan.	2	3	4	5	6	7	8
	12	13	14	15	16	17	18		10	11	12	13	14	15	16		9	10	11	12	13	14	15
	19	20	21	22	23	24	25		17	18	19	20	21	22	23		16	17	18	19	20	21	22
	26	27	28	29	30	31	..		24	25	26	27	28	29	30		23	24	25	26	27	28	29
	..	..	..	..	..	..	1		31	..	..	..	..	..	..		30	31	..	..	..	..	..
Feb.	2	3	4	5	6	7	8	Feb.	..	1	2	3	4	5	6	Feb.	..	1	2	3	4	5	6
	9	10	11	12	13	14	15		7	8	9	10	11	12	13		6	7	8	9	10	11	12
	16	17	18	19	20	21	22		14	15	16	17	18	19	20		13	14	15	16	17	18	19
	23	24	25	26	27	28	29		21	22	23	24	25	26	27		20	21	22	23	24	25	26
	..	..	..	..	..	..	..		28	..	..	..	..	..	..		27	28	..	..	..	..	..
Mar.	1	2	3	4	5	6	7	Mar.	..	1	2	3	4	5	6	Mar.	..	1	2	3	4	5	6
	8	9	10	11	12	13	14		7	8	9	10	11	12	13		6	7	8	9	10	11	12
	15	16	17	18	19	20	21		14	15	16	17	18	19	20		13	14	15	16	17	18	19
	22	23	24	25	26	27	28		21	22	23	24	25	26	27		20	21	22	23	24	25	26
	29	30	31	..	..	..	..		28	29	30	31	..	..	..		27	28	29	30	31	..	..
Apr.	..	..	..	1	2	3	4	Apr.	..	..	..	..	1	2	3	Apr.	..	..	..	..	1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10		3	4	5	6	7	8	9
	12	13	14	15	16	17	18		11	12	13	14	15	16	17		10	11	12	13	14	15	16
	19	20	21	22	23	24	25		18	19	20	21	22	23	24		17	18	19	20	21	22	23
	26	27	28	29	30	..	..		25	26	27	28	29	30	..		24	25	26	27	28	29	30
May	..	..	..	..	1	2	3	May	..	..	..	..	..	1	2	May	..	..	..	..	..	1	2
	3	4	5	6	7	8	9		2	3	4	5	6	7	8		8	9	10	11	12	13	14
	10	11	12	13	14	15	16		9	10	11	12	13	14	15		15	16	17	18	19	20	21
	17	18	19	20	21	22	23		16	17	18	19	20	21	22		22	23	24	25	26	27	28
	24	25	26	27	28	29	30		23	24	25	26	27	28	29		29	30	31	..	..	..	..
	31	..	..	..	..	..	..		30	31	..	..	..	..	..		..	..	..	..	..	..	..
June	..	1	2	3	4	5	6	June	..	..	1	2	3	4	5	June	..	..	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12		5	6	7	8	9	10	11
	14	15	16	17	18	19	20		13	14	15	16	17	18	19		12	13	14	15	16	17	18
	21	22	23	24	25	26	27		20	21	22	23	24	25	26		19	20	21	22	23	24	25
	28	29	30	..	..	..	..		27	28	29	30	..	..	..		26	27	28	29	30	..	..
July	..	..	..	1	2	3	4	July	..	..	..	1	2	3	4	July	..	..	..	1	2	3	4
	5	6	7	8	9	10	11		4	5	6	7	8	9	10		3	4	5	6	7	8	9
	12	13	14	15	16	17	18		11	12	13	14	15	16	17		10	11	12	13	14	15	16
	19	20	21	22	23	24	25		18	19	20	21	22	23	24		17	18	19	20	21	22	23
	26	27	28	29	30	31	..		25	26	27	28	29	30	31		24	25	26	27	28	29	30
Aug.	..	..	..	..	..	1	2	Aug.	1	2	3	4	5	6	7	Aug.	..	1	2	3	4	5	6
	2	3	4	5	6	7	8		8	9	10	11	12	13	14		7	8	9	10	11	12	13
	9	10	11	12	13	14	15		15	16	17	18	19	20	21		14	15	16	17	18	19	20
	16	17	18	19	20	21	22		22	23	24	25	26	27	28		21	22	23	24	25	26	27
	23	24	25	26	27	28	29		29	30	31	..	..	..	..		28	29	30	31	..	..	..
	30	31	..	..	..	..	..		..	..	..	1	2	3	4		..	..	..	1	2	3	4
Sept.	..	..	1	2	3	4	5	Sept.	5	6	7	8	9	10	11	Sept.	4	5	6	7	8	9	10
	6	7	8	9	10	11	12		12	13	14	15	16	17	18		11	12	13	14	15	16	17
	13	14	15	16	17	18	19		19	20	21	22	23	24	25		18	19	20	21	22	23	24
	20	21	22	23	24	25	26		26	27	28	29	30	..	..		25	26	27	28	29	30	..
	27	28	29	30	..	..	..		..	..	..	..	..	..	..		..	..	..	..	..	..	..
Oct.	..	..	..	..	1	2	3	Oct.	..	..	..	1	2	3	4	Oct.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10		3	4	5	6	7	8	9		2	3	4	5	6	7	8
	11	12	13	14	15	16	17		10	11	12	13	14	15	16		9	10	11	12	13	14	15
	18	19	20	21	22	23	24		17	18	19	20	21	22	23		16	17	18	19	20	21	22
	25	26	27	28	29	30	31		24	25	26	27	28	29	30		23	24	25	26	27	28	29
	..	..	..	..	..	..	..		31	..	..	..	..	..	..		30	31	..	..	..	..	..
Nov.	1	2	3	4	5	6	7	Nov.	1	2	3	4	5	6	7	Nov.	..	1	2	3	4	5	6
	8	9	10	11	12	13	14		7	8	9	10	11	12	13		6	7	8	9	10	11	12
	15	16	17	18	19	20	21		14	15	16	17	18	19	20		13	14	15	16	17	18	19
	22	23	24	25	26	27	28		21	22	23	24	25	26	27		20	21	22	23	24	25	26
	29	30	..	..	..	..	..		28	29	30	..	..	..	..		27	28	29	30	..	..	..
Dec.	..	1	2	3	4	5	6	Dec.	..	..	1	2	3	4	5	Dec.	..	..	..	1	2	3	4
	6	7	8	9	10	11	12		5	6	7	8	9	10	11		4	5	6	7	8	9	10
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		11	12	13	14	15	16	17
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		18	19	20	21	22	23	24
	27	28	29	30	31	..	..		26	27	28	29	30	31	..		25	26	27	28	29	30	31

EXTRA CALENDARS, FOR HANDY REFERENCE

* 1912	S	M	T	W	T	F	S	* 1916	S	M	T	W	T	F	S	* 1920	S	M	T	W	T	F	S	
Jan.	..	1	2	3	4	5	6	Jan.	..	2	3	4	5	6	7	Jan.	..	4	5	6	7	8	9	10
	7	8	9	10	11	12	13		2	3	4	5	6	7	8		11	12	13	14	15	16	17	
	14	15	16	17	18	19	20		9	10	11	12	13	14	15		18	19	20	21	22	23	24	
	21	22	23	24	25	26	27		16	17	18	19	20	21	22		25	26	27	28	29	30	31	
	28	29	30	31	..	..	..		23	24	25	26	27	28	29		..	..	..	..	..	..	..	
	..	..	..	..	..	..	..		30	31	..	..	..	..	..		..	..	..	..	..	..	..	
Feb.	..	4	5	6	7	8	9	Feb.	..	..	1	2	3	4	5	Feb.	1	2	3	4	5	6	7	
	11	12	13	14	15	16	17		6	7	8	9	10	11	12		8	9	10	11	12	13	14	
	18	19	20	21	22	23	24		13	14	15	16	17	18	19		15	16	17	18	19	20	21	
	25	26	27	28	29	..	..		20	21	22	23	24	25	26		22	23	24	25	26	27	28	
	..	..	..	..	..	..	..		27	28	29	..	..	..	..		29	..	..	..	..	..	..	
Mar.	..	3	4	5	6	7	8	Mar.	..	..	..	1	2	3	4	Mar.	..	1	2	3	4	5	6	
	10	11	12	13	14	15	16		5	6	7	8	9	10	11		7	8	9	10	11	12	13	
	17	18	19	20	21	22	23		12	13	14	15	16	17	18		14	15	16	17	18	19	20	
	24	25	26	27	28	29	30		19	20	21	22	23	24	25		21	22	23	24	25	26	27	
	31	..	..	..	..	..	..		26	27	28	29	30	31	..		28	29	30	31	..	..	..	
Apr.	..	1	2	3	4	5	6	Apr.	..	..	..	..	..	..	1	Apr.	..	4	5	6	7	8	9	10
	7	8	9	10	11	12	13		2	3	4	5	6	7	8		11	12	13	14	15	16	17	
	14	15	16	17	18	19	20		9	10	11	12	13	14	15		18	19	20	21	22	23	24	
	21	22	23	24	25	26	27		16	17	18	19	20	21	22		25	26	27	28	29	30	..	
	28	29	30	..	..	..	..		23	24	25	26	27	28	29		..	..	..	..	..	..	..	
	..	..	..	..	..	..	..		30	..	..	..	..	..	..		..	..	..	..	..	..	..	
May	..	5	6	7	8	9	10	May	..	1	2	3	4	5	6	May	2	3	4	5	6	7	8	
	12	13	14	15	16	17	18		7	8	9	10	11	12	13		9	10	11	12	13	14	15	
	19	20	21	22	23	24	25		14	15	16	17	18	19	20		16	17	18	19	20	21	22	
	26	27	28	29	30	31	..		21	22	23	24	25	26	27		23	24	25	26	27	28	29	
	..	..	..	..	..	..	..		28	29	30	31	..	..	..		30	31	..	..	..	..	..	
June	..	2	3	4	5	6	7	June	..	..	..	..	..	1	2	June	..	6	7	8	9	10	11	12
	9	10	11	12	13	14	15		4	5	6	7	8	9	10		13	14	15	16	17	18	19	
	16	17	18	19	20	21	22		11	12	13	14	15	16	17		20	21	22	23	24	25	26	
	23	24	25	26	27	28	29		18	19	20	21	22	23	24		27	28	29	30	..	..	..	
	30	..	..	..	..	..	..		25	26	27	28	29	30	..		..	..	..	..	..	..	..	
July	..	1	2	3	4	5	6	July	..	2	3	4	5	6	7	July	..	4	5	6	7	8	9	10
	7	8	9	10	11	12	13		9	10	11	12	13	14	15		11	12	13	14	15	16	17	
	14	15	16	17	18	19	20		16	17	18	19	20	21	22		18	19	20	21	22	23	24	
	21	22	23	24	25	26	27		23	24	25	26	27	28	29		25	26	27	28	29	30	31	
	28	29	30	31	..	..	..		30	31	..	..	..	..	..		..	..	..	..	..	..	..	
Aug.	..	..	..	1	2	3	4	Aug.	..	..	1	2	3	4	5	Aug.	..	8	9	10	11	12	13	14
	11	12	13	4	5	6	7		6	7	8	9	10	11	12		15	16	17	18	19	20	21	
	18	19	20	21	22	23	24		13	14	15	16	17	18	19		22	23	24	25	26	27	28	
	25	26	27	28	29	30	31		20	21	22	23	24	25	26		29	30	31	..	..	..	..	
	..	..	..	..	..	..	..		27	28	29	30	31	..	..		..	..	..	..	..	..	..	
Sept.	1	2	3	4	5	6	7	Sept.	..	..	..	..	1	2	3	Sept.	5	6	7	8	9	10	11	
	8	9	10	11	12	13	14		3	4	5	6	7	8	9		12	13	14	15	16	17	18	
	15	16	17	18	19	20	21		10	11	12	13	14	15	16		19	20	21	22	23	24	25	
	22	23	24	25	26	27	28		17	18	19	20	21	22	23		26	27	28	29	30	..	..	
	29	30	..	..	..	..	..		24	25	26	27	28	29	30		..	..	..	..	..	..	..	
Oct.	6	7	8	9	10	11	12	Oct.	1	2	3	4	5	6	7	Oct.	10	11	12	13	14	15	16	
	13	14	15	16	17	18	19		8	9	10	11	12	13	14		17	18	19	20	21	22	23	
	20	21	22	23	24	25	26		15	16	17	18	19	20	21		24	25	26	27	28	29	30	
	27	28	29	30	31	..	..		22	23	24	25	26	27	28		31	..	..	..	..	..	..	
	..	..	..	..	..	..	..		29	30	31	..	..	..	..		..	..	..	..	..	..	..	
Nov.	3	4	5	6	7	8	9	Nov.	5	6	7	8	9	10	11	Nov.	7	8	9	10	11	12	13	
	10	11	12	13	14	15	16		12	13	14	15	16	17	18		14	15	16	17	18	19	20	
	17	18	19	20	21	22	23		19	20	21	22	23	24	25		21	22	23	24	25	26	27	
	24	25	26	27	28	29	30		26	27	28	29	30	..	..		28	29	30	..	..	..	..	
	..	..	..	..	..	..	..		..	..	..	..	..	..	..		..	..	..	..	..	..	..	
Dec.	1	2	3	4	5	6	7	Dec.	3	4	5	6	7	8	9	Dec.	12	13	14	15	16	17	18	
	8	9	10	11	12	13	14		10	11	12	13	14	15	16		19	20	21	22	23	24	25	
	15	16	17	18	19	20	21		17	18	19	20	21	22	23		26	27	28	29	30	31	..	
	22	23	24	25	26	27	28		24	25	26	27	28	29	30		..	..	..	..	..	..	..	
	29	30	31	..	..	..	..		31	..	..	..	..	..	..		..	..	..	..	..	..	..	

EXTRA CALENDARS, FOR HANDY REFERENCE.

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EXTRA CALENDARS, FOR HANDY REFERENCE

A TABLE

Showing the day of the week on which Jan. 1st, falls in each year, from 1701 to 2000 inclusive.—NOTE—Feb 29 falls on the same week day every 28 years within the same century. Other dates, every 6, 11, 6 and 5 years, counting from a leap year.

IN THE FOLLOWING TABLE THE STARS DENOTE LEAP YEARS.

18th CENTURY. 1701, January First.

SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
1702	1703	1704*	1710	1705	1706	1701
1708*	1714	1709	1716*	1711	1712*	1707
1713	1720*	1715	1721	1722	1717	1718
1719	1725	1726	1727	1728*	1723	1724*
1730	1731	1732*	1738	1733	1734	1729
1736*	1742	1737	1744*	1739	1740*	1735
1741	1748*	1743	1749	1750	1745	1746
1747	1753	1754	1755	1756*	1751	1752*
1758	1759	1760*	1766	1761	1762	1757
1764*	1770	1765	1772*	1767	1768*	1763
1769	1776*	1771	1777	1778	1773	1774
1775	1781	1782	1783	1784*	1779	1780*
1786	1787	1788*	1794	1789	1790	1785
1792*	1798	1793	1800	1795	1796*	1791
1797		1799				

19th CENTURY. 1801, January First.

SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
1804*	1810	1805	1806	1801	1802	1803
1809	1816*	1811	1812*	1807	1808*	1814
1815	1821	1822	1817	1818	1813	1820*
1826	1827	1828*	1823	1824*	1819	1825
1832*	1838	1833	1834	1829	1830	1831
1837	1844*	1839	1840	1835	1836*	1842
1843	1849	1850	1845	1846	1841	1848*
1854	1855	1856*	1851	1852*	1847	1853
1860*	1866	1861	1862	1857	1858	1859
1865	1872*	1867	1868*	1863	1864*	1870
1871	1877	1878	1873	1874	1869	1876*
1882	1883	1884*	1879	1880*	1875	1881
1888*	1894	1889	1890	1885	1886	1887
1893	1900	1895	1896 *	1891	1892*	1898
1899					1897	

20th CENTURY. 1901, January First.

SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
1905	1906	1901	1902	1903	1904*	1910
1911	1912*	1907	1908*	1914	1909	1916*
1922	1917	1918	1913	1920*	1915	1921
1928*	1923	1924*	1919	1925	1926	1927
1933	1934	1929	1930	1931	1932*	1938
1939	1940*	1935	1936*	1942	1937	1944*
1950	1945	1946	1941	1948*	1943	1949
1956*	1951	1952*	1947	1953	1954	1955
1961	1962	1957	1958	1959	1960*	1966
1967	1968*	1963	1964*	1970	1965	1972*
1978	1973	1974	1969	1976*	1971	1977
1984*	1979	1980*	1975	1981	1982	1983
1989	1990	1985	1986	1987	1988*	1994
1995	1996*	1991	1992*	1998	1993	2000*
			1997		1999	

RULE AND TABLE

FOR FINDING THE DAY OF THE WEEK OF ANY EVENT FOR SIXTY CENTURIES,
STARTING FROM THE COMMENCEMENT OF THE CHRISTIAN ERA.

RATIOS FOR CENTURIES.

4	2	0	5	4	2	0	5	4	2	0	5
*	100	200	300	2000	2100	2200	2300	4000	4100	4200	4300
400	500	600	700	2400	2500	2600	2700	4400	4500	4600	4700
800	900	1000	1100	2800	2900	3000	3100	4800	4900	5000	5100
1200	1300	1400	1500	3200	3300	3400	3500	5200	5300	5400	5500
1600	1700	1800	1900	3600	3700	3800	3900	5600	5700	5800	5900

* The years 1 to 99, inclusive.

RATIOS OF MONTHS.

January.....	3	April.....	2	September.....	1
„ Leap Year....	2	May.....	4	October.....	3
February.....	6	June.....	0	November.....	6
„ Leap Year....	5	July.....	2	December.....	1
March.....	6	August.....	5		

RULE.—Of the figures denoting the year, strike off those occupying the place of units and tens. To this number add its one-fourth part, (disregarding the remainder if any) the day of the month, ratio for the century and the ratio for the month. Divide the sum by 7, and the remainder will denote the day of the week.

If the remainder be 1 the day denoted is Sunday.

“ “ 2 “ “ Monday.

“ “ 3 “ “ Tuesday.

“ “ 4 “ “ Wednesday.

“ “ 5 “ “ Thursday.

“ “ 6 “ “ Friday.

If there be no remainder, “ “ Saturday.

EXAMPLE 1—Upon what day of the week did Columbus discover America?

Solution—Date.....October 12, 14 | 92

One fourth of 92.....23

Day of month.....12

Ratio for century 1400.....0

Ratio for month of Oct.....3

Ratio for Old Style Date.....2

Divide by.....7) 132

18—6 remainder denot-

ing that the day of the week was Friday.

EXAMPLE 2—Upon what day of the week was George Washington born?

Solution—Date.....February 22, 17 32

One fourth of 32..... 8

Day of the month..... 22

Ratio for century 1700..... 2

Ratio for month of Feb... 5

Divide by.....7) 69

9—6 remainder denot-

ing that the day of the week was Friday.

THE OLD AND NEW STYLE.

A year is the time required for the revolution of the earth around the sun, viz: 365 days 5 hours 48 minutes, and 48.6 seconds. To include the fraction of a day Julius Cæsar decreed that every fourth year should consist of 366 days. This is the Julian, or Old Style, and is an excess for each year of 11 minutes, and 10 and 3-10 seconds; so that in 1582 there had been an over-reckoning of ten days. To correct this, the 5th of October of that year was reckoned the 15th. Still there was an overplus in a century of 18 hours, 37 minutes and 10 seconds so it was agreed that every centurial year that was not divisible by 400 should not be a leap year. This is the Gregorian, or New Style, and was adopted by an act of the British Parliament, September 3, 1752. The difference between the New and Old Style, is twelve days. The dates of some of the events previous to that year of that century, (the date of Washington's birth, for example) were changed to accord with the New Style. In using the above rule regarding dates of events previous to 1752, care must be used as to what style they belong.

DIVISIONS OF TIME.

The two natural divisions of time are the day, of 24 hours, representing one revolution of the earth on its axis, and the year, 365 days, approximately representing one revolution of the earth around the sun. The month represents (nearly) the period of the moon's revolution around the earth, (about 29½ days) while the week is approximately one-fourth of this.

SIDEREAL AND SOLAR DAYS.

The interval between two consecutive transits of a fixed star over any meridian, or the interval during which the earth makes one absolute revolution on its axis is called a **SIDEREAL DAY**, and is invariable, while the interval between two consecutive transits of the Sun over any meridian is called an **APPARENT SOLAR DAY**, and its length varies from day to day by reason of the variable motion of the earth in its orbit, and the inclination of this orbit to the equator, on which time is measured.

A Mean Solar Day is the average or mean of all the apparent solar days in a year. Mean Solar Time is that shown by a well-regulated clock or watch, while Apparent Solar Time is that shown by a well-constructed sun dial: the difference between the two at any time is the Equation of Time, and may amount to 16 minutes and 21 seconds. The Sidereal and Mean Solar Days are both invariable, but one day of the latter is equal to 1 day, 3 minutes and 56.555 seconds of the former.

ASTRONOMICAL AND CIVIL DAYS.

THE ASTRONOMICAL DAY begins at noon, and is counted from the first to the twenty-fourth hour. A CIVIL DAY begins at midnight, and is counted from the first to the twelfth hour, when it is counted again from the first to the twelfth hour.

SIDEREAL AND TROPICAL YEARS.

The interval during which the earth makes one absolute revolution round the sun is called a SIDEREAL YEAR, and consists of 365 days, 6 hours, 9 minutes and 9.6 seconds, which is invariable.

The Tropical Year is the interval between two consecutive returns of the Sun to the Vernal Equinox. If this were a fixed point, the Sidereal and Tropical Years would be identical; but in consequence of the disturbing influence of the moon and planets on the spheroidal figure of the earth, the Equinox has a slow retrograde mean motion of 50.26 seconds annually, so that the Sun returns to the Equinox sooner every year than it otherwise would by 20 minutes, 23.9 seconds; the Tropical Year, therefore, consists of 365 days, 5 hours, 48 minutes and 46 seconds. The Tropical Year is not of uniform length; it is now slowly decreasing at the rate of .595 seconds per century, but this variation will not always continue.

THE JULIAN CALENDAR.

Julius Cæsar, in 45, B.C. was the first to reform the calendar by ordering that every year whose date number is exactly divisible by 4 contain 366 days, and all other years 365 days. The intercalary day was introduced by counting the sixth day before the Kalends of March twice; hence the name bissextile, from bis, twice, and sex, six. He also changed the beginning of the year from 1st of March to the 1st of January, and also changed the name of the fifth month (Quintilis) to July, after himself. The average length of the Julian year is therefore $365\frac{1}{4}$ days, which, however, is too long by 11 minutes, and 14 seconds, and accumulates in 100 years to about three days. The Julian Calendar continued in use until A.D. 1582, when the date of the beginning of the seasons occurred 10 days later than in 45, B.C., when this mode of reckoning time was introduced.

THE GREGORIAN CALENDAR.

Pope Gregory XIII, in 1582, reformed the calendar by suppressing ten days, restoring the Equinox to March 21st. The Gregorian Calendar also made every year which is divisible by four without a remainder a leap year, except the centesimal years, which are only leap years when the first two figures are divisible by four; thus 1600 was a leap year, 1700, 1800 and 1900 common years, etc. The length of the mean Gregorian year is 365 days, 5 hours, 49 minutes, 12 seconds; exceeding the true solar year nearly 26 seconds, which error amounts only to one day in 3,325 years.

The Gregorian Calendar was introduced into England and her colonies in 1752, at which time the Equinox had retrograded 11 days since the Council of Nice in A.D. 325, when the festival of Easter was established and the Equinox occurred on March 21; and hence September 3, 1752, was called September 14, and at the same time the commencement of the legal year was changed from March 25 to January 1, so that the year 1751, lost the months of January and February and the first 24 days of March. The difference between the Julian and Gregorian Calendars is now 12 days. Russia and the Greek Church still employ the Julian Calendar for civil and ecclesiastical purposes.

HOW THE YEAR IS MADE UP.

(Memorizing this verse will assist in reckoning interest, counting pay roll time, etc.)

Thirty days has September,
April, June and November.

All the rest have thirty-one except February, which is alone with twenty-eight, but gets one day more from one year in four.

LEAP YEARS AND CENTENNIAL YEARS.

No centennial year is a leap year unless it can be divided evenly by 400. Therefore 1600 and 2000 are leap years, but 1700, 1800, 1900, 2100, etc., are not leap years. If the true year consisted of 365 days, 6 hours, then the addition of a full day every four years would keep the calendar and true time together. But the year is only 365 days, 5 hours, 48 minutes, 48.6 seconds, thus lacking between 11 and 12 minutes of 6 hours. The adopted system therefore adds a day to February every fourth year until the hundredth year is reached then omits that day from three successive centennial years thus recompensing the calendar for the 11 minutes, 48.6 seconds which the accounting had actually gained. On the fourth hundredth year, however, the day is added, squaring the account within the smallest fraction.

EASTER.

The festival of Easter, commemorating the resurrection of Christ, used to be observed on the 14th day of the moon—i. e., near the full moon—the same as the Jewish Passover. But the Council of Nice, A. D. 325, ordered Easter to be celebrated on the Sunday next succeeding the full moon that comes on or next after the vernal Equinox—March 21st, thus making Easter and the related feast and fast days movable holidays. The latest date on which **EASTER** can possibly occur is April 25. Its earliest possible date is March 21.

EASTER SUNDAYS.

Table showing on what day of March or April. **EASTER** Sunday falls, from 1801 to 1950 inclusive.

1801	April	5	1851	April	20	1901	April	7
1802	"	18	1852	"	11	1902	March	23
1803	"	10	1853	March	27	1903	April	12
1804	"	1	1854	April	16	1904	"	3
1805	"	14	1855	"	8	1905	"	23
1806	"	6	1856	March	23	1906	"	8
1807	March	29	1857	April	12	1907	March	31
1808	April	17	1858	"	4	1908	April	19
1809	"	2	1859	"	24	1909	"	11
1810	"	22	1860	"	8	1910	March	27
1811	"	14	1861	March	31	1911	April	16
1812	March	29	1862	April	20	1912	"	7
1813	April	18	1863	"	5	1913	March	23
1814	"	10	1864	March	27	1914	April	12
1815	March	26	1865	April	16	1915	"	4
1816	April	14	1866	"	1	1916	"	23
1817	"	6	1867	"	21	1917	"	1
1818	March	22	1868	"	12	1918	March	28
1819	April	11	1869	March	28	1919	April	20
1820	"	2	1870	April	17	1920	"	4
1821	"	22	1871	"	9	1921	March	27
1822	"	7	1872	March	31	1922	April	16
1823	March	30	1873	April	13	1923	"	1
1824	April	18	1874	"	5	1924	"	20
1825	"	3	1875	March	28	1925	"	12
1826	March	26	1876	April	16	1926	March	28
1827	April	15	1877	"	1	1927	April	17
1828	"	6	1878	"	21	1928	"	8
1829	"	19	1879	"	13	1929	March	31
1830	"	11	1880	March	28	1930	April	13
1831	"	3	1881	April	17	1931	"	5
1832	"	22	1882	"	9	1932	March	27
1833	"	7	1883	March	25	1933	April	16
1834	March	30	1884	April	13	1934	"	1
1835	April	19	1885	"	5	1935	"	21
1836	"	3	1886	"	25	1936	"	12
1837	March	26	1887	"	10	1937	March	28
1838	April	15	1888	"	1	1938	April	17
1839	March	31	1889	"	21	1939	"	9
1840	April	19	1890	"	6	1940	March	24
1841	"	11	1891	March	29	1941	April	13
1842	March	27	1892	April	17	1942	"	5
1843	April	16	1893	"	2	1943	"	25
1844	"	7	1894	March	25	1944	"	9
1845	March	23	1895	April	14	1945	"	1
1846	April	12	1896	"	5	1946	"	21
1847	"	4	1897	"	18	1947	"	6
1848	"	23	1898	"	10	1948	March	28
1849	"	8	1899	"	2	1949	April	17
1850	March	31	1900	"	15	1950	"	2

STANDARD TIME.

Railroad companies found it necessary to have some standard of time by which trains could be run systematically all over the continent, and which all trainmen would understand and acknowledge as correct.—Chiefly for this reason the following arrangement and divisions of time, were made a standard of time and established by mutual agreement in 1883, by which trains are run and local time regulated. According to this system, the United States, extending from 65 degrees to 125 degrees west longitude, is divided into four time sections, each of 15 degrees longitude, exactly equivalent to one hour. The first (eastern) section includes all territory between the Atlantic coast and an irregular line drawn from Detroit, Michigan, to Charleston, South Carolina, the latter being the most southern point. The second (central) section includes all the territory between the last named line and an irregular line from Bismarck, North Dakota, to the mouth of the Rio Grande. The third (mountain) section includes all the territory between the last named line and nearly the western borders of Idaho, Utah and Arizona. The fourth (Pacific) section covers the country to the Pacific coast. Standard time is uniform inside each of these sections, and the time of each section differs from that next to it by exactly one hour. Thus at 12 noon in New-York City (eastern time) the time at Chicago (central time) is 11 o'clock A. M.; at Denver (mountain time) 10 o'clock A. M.; and at San Francisco (Pacific time) 9 o'clock A. M. Standard time is 16 minutes slower at Boston than true local time, 4 minutes slower at New York, 8 minutes faster at Washington, 19 minutes faster at Charleston, 28 minutes slower at Detroit, 18 minutes faster at Kansas City, 10 minutes slower at Chicago, 1 minute faster at St. Louis, 28 minutes faster at Salt Lake City, and 10 minutes faster at San Francisco.

EXPLANATION.

INTERCOLONIAL TIME is based upon that of the 60th meridian, and is two hours faster than CENTRAL TIME. EASTERN TIME is based upon the 75th meridian, which is one hour faster than CENTRAL TIME, or four minutes slower than NEW YORK CITY SOLAR TIME. CENTRAL TIME is based upon the 90th meridian, which is nine minutes slower than CHICAGO SOLAR TIME. MOUNTAIN TIME is based upon the 105th meridian, and is one hour slower than CENTRAL TIME. PACIFIC TIME is based upon the 120th meridian, and is two hours slower than CENTRAL TIME.

BEGINNING OF EPOCHS, ERAS AND PERIODS.

Name.	Began.
Grecian Mundane Era.....	B.C. 5598, Sept. 1
Civil Era of Constantinople.....	" 5508, Sept. 1
Alexandrian Era.....	" 5502, Aug. 29
Ecclesiastical Era of Antioch.....	" 5492, Sept. 1
Julian Period.....	" 4713, Jan. 1
Mundane Era.....	" 4008, Oct. 1
Jewish Mundane Era.....	" 3761, Oct. 1
Era of Abraham.....	" 2015, Oct. 1
Era of the Olympiads.....	" 776, July 1
Roman Era (A.U.C.).....	" 753, Apr. 24
Era of Nabonassar.....	" 747, Feb. 26
Metonic Cycle.....	" 432, July 15
Grecian or Syro-Macedonian Era.....	" 312, Sept. 1
Tyrian Era.....	" 125, Oct. 19
Sidonian Era.....	" 110, Oct. 1
Cæsarean Era of Antioch.....	" 48, Sept. 1
Julian Year.....	" 45, Jan. 1
Spanish Era.....	" 38, Jan. 1
Actian Era.....	" 30, Jan. 1
Augustan Era.....	" 27, Feb. 14
Vulgar Christian Era.....	A.D. 1, Jan. 1
Destruction of Jerusalem.....	" 69, Sept. 1
Era of Maccabees.....	" 166, Nov. 24
Era of Diocletian.....	" 284, Sept. 17
Era of Ascension.....	" 295, Nov. 12
Era of the Armenians.....	" 552, July 7
Mohammedan Era.....	" 622, July 16
Persian Era of Yezdegird.....	" 632, June 16

THE ANCIENT HOUR.

The early Egyptians divided the day and night each into twelve hours a custom adopted by the Jews or Greeks probably from the Babylonians. The day is said to have first been divided into hours from B. C. 293, when a sundial was erected in the temple of Quirinus, at Rome. Previous to the invention of water clocks, B. C. 158, the time was called at Rome by public criers. In early England one expedient for measuring time was by wax candles, three inches burning an hour. The first perfect mechanical clock was not made until about A. D. 1250. Day began at sunrise among most of the Northern nations, at sunset among the Athenians and Jews, and at midnight among the Romans, as with us.

ANCIENT AND MODERN YEAR.

The Athenians began the year in June, the Macedonians in September, the Romans first in March and afterward in January, the Persians on August 11, the ancient Mexicans on February 23, the Mohammedans in July. The Chinese year, which begins early in February, is similar to the Mohammedan in having 12 months of 29 and 30 days alternately; but in every nineteen years there are seven years which have 13 months. This is not quite correct, and the Chinese have therefore formed a cycle of 60 years, in which period 22 intercalary months occur.

SUNDAY

WITH DIFFERENT NATIONS.

Every day of the week is a Sabbath day to some nation of the world. Jews keep the scriptural "seventh day;" Greeks, Monday; Persians, Tuesday; Assyrians, Wednesday; Egyptians, Thursday; Turks, Friday; Catholic, Protestant, anti-Christians, Sunday; and the Shakers keep the "Sabbath of the Lord."

BELL TIME ON SHIPBOARD.

TIME A. M.

1 Bell	12.30	1 Bell	4.30	1 Bell	8.30
2 Bells	1.00	2 Bells	5.00	2 Bells	9.00
3 "	1.30	3 "	5.30	3 "	9.30
4 "	2.00	4 "	6.00	4 "	10.00
5 "	2.30	5 "	6.30	5 "	10.30
6 "	3.00	6 "	7.00	6 "	11.00
7 "	3.30	7 "	7.30	7 "	11.30
8 "	4.00	8 "	8.00	8 "	Noon

TIME P. M.

1 Bell	12.30	1 Bell	4.30	1 Bell	8.30
2 Bells	1.00	2 Bells	5.00	2 Bells	9.00
3 "	1.30	3 "	5.30	3 "	9.30
4 "	2.00	4 "	6.00	4 "	10.00
5 "	2.30	1 Bell	6.30	5 "	10.30
6 "	3.00	2 Bells	7.00	6 "	11.00
7 "	3.30	3 "	7.30	7 "	11.30
8 "	4.00	4 "	8.00	8 "	Midnight.

On shipboard, for purposes of discipline and to divide the watch fairly, the crew is mustered in two divisions: the Starboard (right side, looking toward the head), and the Port (left). The day commences at noon and is thus divided: Afternoon Watch, noon to 4 P.M.; First Dog Watch, 4 P.M. to 6 P.M. Second Dog Watch, 6 P.M. to 8 P.M.; First Watch, 8 P.M. to midnight; Middle Watch, 12 A.M. to 4 A.M.; Morning Watch, 4 A.M. to 8 A.M.; Forenoon Watch, 8 A.M. to noon. This makes seven Watches, which enables the crew to keep them alternately, as the Watch which comes on duty at noon one day has the afternoon next day, and the men who have only four hours' rest one night have eight hours the next. This is the reason for having Dog Watches, which are made by dividing the hours between 4 P.M. and 8 P.M. into two Watches. Time is kept by means of "Bells," although sometimes there is but one Bell on the ship.—Whitaker.

NAMES AND MOVEMENT OF PLANETS.

Names of the Planets.	Diam. in Miles.	Periodic time. Days.	Dis. from the Sun. Miles.	Revolves on its Axis.	Moves in its Orbit per hour.
Mercury.....	3,200	88	37 Mill.	24 h. 5 m.	110,000 Miles.
Venus.....	7,700	224.7	69 "	23 h. 21 m.	83,000 "
Earth.....	7,916	365 $\frac{1}{4}$	95 "	23 h. 56 m.	68,000 "
Mars.....	4,200	687	145 "	24 h. 39 m.	54,000 "
Jupiter.....	88,000	4,332 $\frac{1}{2}$	494 "	9 h. 56 m.	30,000 "
Saturn.....	75,000	10,759	906 "	10 h. 29 m.	22,000 "
Uranus.....	35,000	30,687	1,822 "	Unknown.	15,000 "
Neptune.....	38,000	60,127	2,853 "	Unknown.	12,000 "
Moon.....	2,180	Dist. from earth.	238,000 miles,		2,280 "
Sun.....	887,000	1,400,000 times larger than the earth.			20,000 "

NOTE—The Sun revolves on its axis in about 25 days and 10 hours.

RULE

FOR FINDING DISTANCES OF PLANETS FROM THE SUN.

The celebrated astronomer, Kepler, discovered that all the planets are subject to one general LAW, which is, that the "squares of their periodic times are proportional to the cubes of their mean distances from the sun." This law was fully demonstrated and established by Sir ISAAC NEWTON. Astronomers found it very easy to ascertain the periodic times of the planets, which only required them to observe the time it took each planet to revolve around the sun from any particular star to the same star again; but to find the distances of the planets from the sun, they found a much more difficult task. By observations made upon the transits of VENUS, the earth's distance from the SUN, has been found to be about 95,000,000 of miles,—hence, if we have the periodic times of the planets, and the distance of one of them from the sun we can, by this law of Kepler's, find the distances of the other planets by the simple RULE of proportion. Therefore, to find the distance of Mercury from the sun, we say, as the square of 365 days (which is 133, 225) is to the cube of 95,000,000 of miles, which is (857,375,000,000,000,000,000,000) so is the square of 88 days, (which is 7,744) to a fourth term, which is the cube of Mercury's distance from the sun. And if the cube root of this term be extracted, the answer will be 37,000,000 of miles, nearly.

DISTANCES.

THE FOLLOWING ARE THE STATEMENTS TO FIND THE DISTANCES OF THE
OTHER PLANETS FROM THE SUN.

As 133,225 is to 857,375,000,000,000,000,000,000

.....

So is the square of the periodic time, in days, of each planet separately to the fourth term, which will be the cube of the distance of the planet from the sun. Extract the cube root of the fourth term, so found, and it will give the planet's mean distance from the sun.

MEASURING

THE EARTH'S CIRCUMFERENCE.

All circles, great or small, are supposed to be divided into 360 equal parts called degrees. From this it will be seen that a degree has no definite measure; but depends upon the magnitude of the circle. If we suppose a circle to be 360 miles in circumference, then one degree would measure just one mile; but if the circle were greater a degree would be greater, and if less a degree would be less. We will now apply this principle of the circle to measure the circumference of the earth. In order to do this, we must take two places some distance apart and under the same meridian; we will suppose New York City and Albany New York.

We will suppose that the exact distance between the two places has been found by exact measurement to be $138\frac{1}{2}$ miles—(this distance probably does not vary much from the truth.) We will now place an observer at each place with accurate instruments, and on a particular night, at 12 o'clock, the observer at New York City finds a particular star exactly in his zenith, or over head; but the observer at Albany, New York, finds the same star two degrees to the south of his zenith,—hence it will be seen that there are two degrees between the two places; and as the distance, by measurement, was found to be $138\frac{1}{2}$ miles, the two degrees between New York City and Albany, New York, are equal to $138\frac{1}{2}$ miles, or one degree equals $69\frac{1}{4}$ miles. Now, if we multiply the number of degrees in the whole circle or circumference of the earth (360) by $69\frac{1}{4}$ miles, it will 24,930 miles the whole circumference of the earth.

A JOURNEY

FROM THE EARTH TO THE SUN.

If a railroad could be built from the earth to the sun, and trains run upon it, at the rate of thirty miles an hour, day and night without stopping, it would require 350 years to make the journey from the earth to the sun.

MOUNTAINS

OF THE EARTH AND MOON.

The mountains of the moon are larger in proportion to its size than those of the earth. Though it would take forty-nine moons to equal the size of the earth, the moon has twenty-two mountains higher than Mont Blanc; six peaks are above 19,000 feet, and one is 24,944 feet in height,—a little more than four and a half miles, and 3,136 feet lower than the highest mountain on earth.

STATISTICS OF THE GLOBE.

The earth is inhabited by about 1,301,000,000 of inhabitants, namely: 360,000,000 of the Caucasian race; 550,000,000 of the Mongolian; 190,000,000 of the Ethiopian; 200,000,000 of the Malay races; and 1,000,000 of the American Indian. All these respectively speak 3,064 languages, and possess 1,000 different religions. The amount of deaths per annum is 33,333,333, or 91,954 per day, 3,730 per hour, 60 per minute, or one per second. This loss is more than compensated by the number of births. The average duration of life throughout the globe is 33

years. One-fourth of its population dies before the seventh year, and one-half before the seventeenth. Out of 10,000 persons only one reaches his hundredth year, only one in 500 his eightieth, and only one in 100 his sixty-fifth. Married people live longer than unmarried ones, and a tall man is likely to live longer than a short one. Until the fiftieth year, women have a better chance of life than men; but beyond that period the chances are equal. Sixty-five persons out of 1,000 marry. The months of June and December are those in which marriages are most frequent. Children born in Spring are generally stronger than those born in other seasons. Births and deaths chiefly occur in the night. The number of men able to bear arms is about one-eighth of the population.

BIBLE STATISTICS.

The following statement is on the authority of a communication published in *Notes and Queries* (London). It is represented to be the fruits of three years' labor by the indefatigable Dr. Horne, and is given by him in his introduction to the study of the Scriptures. The basis is an old English Bible of the King James version.

OLD TESTAMENT.—Number of books, 39; chapters, 929; verses, 23,214; words, 591,493; letters, 2,728,100.

NEW TESTAMENT.—Number of books, 27; chapters, 260; verses, 7,959; words, 181,253; letters, 838,380.

THE BIBLE.—Total number of books, 66; chapters, 1,189; verses, 31,173; words, 773,743; letters, 3,566,480.

APOCRYPHA.—Number of books, 14; chapters, 183; verses, 6,031; words, 125,185.

THE OLD TESTAMENT.

The middle book of the Old Testament is Proverbs; the middle chapter is Job 29; the middle verse is 2 Chronicles 20, between verses 17 and 18; the shortest book is Obadiah; the shortest verse is 1 Chronicles 1:25; the word "and" occurs 35,543 times. Ezra 7:21 contains all the letters of our alphabet; the word "Selah" occurs 73 times and only in the poetical books; 2 Kings 19 and Isaiah 37 are alike; the Book of Esther does not contain the words God or Lord; the last two verses of 2 Chronicles and the opening verses of the Book of Ezra are alike; Ezra 2 and Nehemiah 7 are alike; there are nearly 30 books mentioned, but not found in the Bible, consisting of civil records and other ancient writings now nearly all lost; about 25 of these are alluded to in the Old Testament.

THE NEW TESTAMENT.

The middle book is 2 Thessalonians; the middle chapter is between Romans 13 and 14; the middle verse is Acts 17:17; the smallest book is 2 John; the smallest verse is John 11:35; the word "and" occurs 10,683 times; the name Jesus occurs nearly 700 times in the Gospels and Acts, and in the Epistles less than 70 times; the name Christ alone occurs about 60 times in the Gospels and Acts, and about 240 times in the Epistles and Revelation; the term Jesus Christ occurs 5 times in the Gospels.

THE BIBLE.

The middle book is Micah; the middle (and smallest) chapter is Psalm 117; the middle verse is Psalm 118:8; the middle line is 2 Chronicles 4:16, the largest book is that of the Psalms; the largest chapter is Psalm 119; the word Jehovah (or Lord) occurs 6,855 times; the word "and" occurs 46,227 times; the number of authors of the Bible is 50; the Bible was not until modern times divided into chapters and verses; the division of chapters has been attributed to Lanfrank, Archbishop of Canterbury, in the reign of William I.; but the real author of this division was Cardinal Hugo de Sancto-Caro, about 1236; the number of languages on earth is estimated at 3,000; the Bible or parts of it have been rendered into only about 180; the first English translation complete of the Bible was by Wickliffe in 1380; the first American edition was printed in Boston in 1752.

AGES

OF ANIMALS, BIRDS, FISHES, ETC.

(Taken from reliable records.)

Elephants 100 years and upwards; rhinoceros, 26; camel, 100; lion, 25 to 70; tigers, leopards, jaguars and hyenas (in confinement), about 25; beaver, 50; dog, 15; deer, 20; wolf, 20; fox, 14 to 16; llamas, 15; chamois, 25; monkeys, and baboons, 16 to 18; hare, 8; squirrel, 7; rabbit, 7; swine, 25; stag, under 50; horse, 30; mule, 30; sheep, under 10; cow, 20; ox, 30; swans, parrots and ravens, 200; eagle, 100; geese, 80; hens and pigeons, 10 to 16; hawks, 30 to 40; crane, 24; blackbird, 10 to 12; peacock, 20; pelican, 40 to 50; thrush, 8 to 10; wren, 2 to 3; nightingale, 15; blackcap, 15; linnnet, 14 to 23; goldfinch, 20 to 24; redbreast, 10 to 12; skylark, 10 to 30; titlark, 5 to 6; chaffinch, 20 to 24; starling, 10 to 12; carp, 70 to 150; pike, 30 to 40; salmon, 16; codfish, 14 to 17; eel, 16; crocodile, 100; tortoise, 100 to 200; whale, estimated, 1,000; queen bees live a 100 to 200; drones, 4 months; worker bees, 6 months.

STATISTICS OF GOLD AND SILVER.

The relative value of gold to silver has varied greatly at different periods. The ratio was: Before the Christian era, one to ten; in the year 500 A. D., one to eighteen; in 1100, one to eight; in 1400, one to seven; in 1545, one to six; in 1600, one to ten; in 1700, one to fifteen; in 1876, one to twenty; in 1886, one to twenty-eight and a half—the highest point until then ever known.

A cubic inch of gold is worth (valuing it at \$18 per ounce), \$210; a cubic foot, \$362,380; a cubic yard, \$9,797,762. At the commencement of the Christian Era there was in the world \$427,000,000 in gold. This had diminished to \$57,000,000 at the time America was discovered. Then it began to increase. The amount of gold in use in 1890 was estimated at \$6,000,000,000. Yet all this welded into a solid mass would be contained in a cube of twenty-six feet. One million dollars of gold coin weighs 3,685.8 pounds avoirdupois; of silver coin, 58,929.9 pounds.

PORTRAITS

ON UNITED STATES BANK NOTES.

\$1, Washington; \$2, Jefferson; \$5, Jackson; \$10, Webster; \$20, Hamilton; \$50, Franklin; \$100, Lincoln; \$500 General Mansfield; \$1,000, DeWitt Clinton; \$5,000, Madison; \$10,000, Jackson. ON SILVER CERTIFICATES—\$10, Robert Morris; \$20, Commodore Decatur; \$50, Edward Everett; \$100, James Monroe; \$500, Charles Sumner; and \$1,000, W. L. Marcy. ON GOLD NOTES—\$20, Garfield; \$50, Silas Wright; \$100, Thomas H. Benton; \$500, A. Lincoln; \$1,000, Alexander Hamilton; \$5,000, James Madison; \$10,000, Andrew Jackson.

PORTRAITS

ON POSTAGE STAMPS.

The portraits on the postage stamps that came into use October 1, 1883, are One-cent, Franklin; two cent, Jackson; three-cent, Washington; five-cent, Garfield; six-cent, Lincoln; seven-cent, Stanton; ten-cent, Jefferson; twelve-cent, Clay; fifteen-cent, Scott; thirty-cent, Hamilton; ninety-cent, Perry.

AMERICAN PRINCES.

It is interesting to know the wealth of our American nobility. The following is a good estimate of their possessions: Jay Gould, \$280,000,000; W. H. Vanderbilt, \$260,000,000; Leland Stanford, \$100,000,000; James Flood, \$80,000,000; C. P. Huntington and J. W. Mackey, each \$50,000,000; James G. Fair, Charles Crocker and Russel Sage, each \$40,000,000; W. H. Sharon, \$25,000,000; estate of Tom Scott, \$20,000,000; Cyrus W. Field, Samuel J. Tilden and George M. Pullman, each \$15,000,000; John W. Garrett and James Keene, each \$10,000,000.

INTEREST RECKONING.

The following rules have been used for years and found to be correct and short:

To find the interest at 4 per cent. multiply the amount by the number of days and divide by 90.

At 6 per cent. multiply the amount by the number of days and divide by 60.

At 8 per cent. multiply the amount by the number of days and divide by 45.

At 9 per cent. multiply the amount by the number of days and divide by 40.

At 10 per cent. multiply the amount by the number of days and divide by 36.

At 12 per cent. multiply the amount by the number of days and divide by 30.

At 15 per cent. multiply the amount by the number of days and divide by 24.

At 18 per cent. multiply the amount by the number of days and divide by 20.

At 20 per cent. multiply the amount by the number of days and divide by 18.

TIME

AT WHICH MONEY DOUBLES AT INTEREST.

Rate per cent.	Simple Interest.	Compound Interest.
2.....	50 years.	35 years 1 day.
2½.....	40 years.	28 years 26 days.
3.....	33 years 4 months.	23 years 164 days.
3½.....	28 years 2 8 days.	21 years 54 days.
4.....	25 years.	17 years 246 days.
4½.....	22 years 81 days.	15 years 273 days.
5.....	20 years.	15 years 75 days.
6.....	16 years 8 months.	11 years 327 days.
7.....	14 years 104 days.	10 years 89 days.
8.....	12½ years.	9 years 2 days.
9.....	11 years 40 days.	8 years 16 days.
10.....	10 years.	7 years 100 days.

ONE DOLLAR LOANED 100 YEARS at compound interest would amount to the following sum:

1 per cent.....\$	2 75	12 per cent.....\$	84,675 00
3 per cent.....	19 25	15 per cent.....	1,174,405 00
6 per cent.....	340 00	18 per cent.....	15,154,207 00
10 per cent.....	13,809,00	24 per cent.....	2,551,799,404 00

READY RECKONER TABLE,

For computing wages, rent, board, etc. The sum will be found heading the columns and the days and weeks on the extreme left-hand column. If the desired sum is not in the table, double or treble two or three suitable numbers.

TIME.		\$2 50	\$2 75	\$3 00	\$3 25	\$3 50	\$3 75	\$4 00	\$4 25	\$4 50	\$4 75
Weeks.	1	36	39	43	44	50	53	57	61	64	68
	2	72	78	86	93	1 00	1 07	1 14	1 21	1 28	1 36
	3	1 08	1 17	1 29	1 39	1 50	1 61	1 71	1 82	1 93	2 03
	4	1 44	1 56	1 71	1 86	2 00	2 14	2 28	2 43	2 57	2 71
	5	1 80	1 95	2 14	2 32	2 50	2 68	2 86	3 03	3 21	3 39
	6	2 15	2 34	2 57	2 78	3 00	3 21	3 43	3 64	3 86	4 07
	1	2 50	2 75	3 00	3 25	3 50	3 75	4 00	4 25	4 50	4 75
	2	5 09	5 50	6 00	6 50	7 00	7 50	8 00	8 50	9 00	9 50
	3	7 50	8 25	9 00	9 75	10 50	11 25	12 00	12 75	13 50	14 25
	4	10 00	11 00	12 00	13 00	14 00	15 00	16 00	17 00	18 00	19 00
	5	12 50	13 75	15 00	16 25	17 50	18 75	20 00	21 25	22 50	23 75

TIME.		\$5 00	\$5 25	\$5 50	\$5 75	\$6 00	\$6 25	\$6 50	\$6 75	\$7 00	\$8 00
Weeks.	1	71	75	79	82	86	89	93	96	1 00	1 14
	2	1 43	1 50	1 58	1 64	1 72	1 78	1 86	1 92	2 00	2 28
	3	2 14	2 25	2 37	2 46	2 53	2 67	2 79	2 88	3 00	3 52
	4	2 86	3 00	3 15	3 28	3 44	3 56	3 72	3 84	4 00	4 26
	5	3 57	3 75	3 94	4 10	4 30	4 45	4 65	4 80	5 00	5 72
	6	4 28	4 50	4 73	4 92	5 16	5 34	5 58	5 76	6 00	6 86
	1	5 00	5 25	5 50	5 75	6 00	6 25	6 50	6 75	7 00	8 00
	2	10 00	10 50	11 00	11 50	12 00	12 50	13 00	13 50	14 00	16 00
	3	15 00	15 75	16 50	17 25	18 00	18 75	19 50	20 25	21 00	24 00
	4	20 00	21 00	22 00	23 00	24 00	25 00	26 00	27 00	28 00	32 00
	5	25 00	26 25	27 50	28 75	30 00	31 25	32 50	33 50	35 00	46 00

CAPACITY

OF CISTERNS OR WELLS.

Tabular view of the number of gallons contained in the clear between the brick work for each ten inches of depth.

Diameter.	Gallons.	Diameter.	Gallons.	Diameter.	Gallons.
2 feet equal	19	6 feet equal	176	10 feet equal	489
2½ feet equal	30	6½ feet equal	207	11 feet equal	592
3 feet equal	44	7 feet equal	240	12 feet equal	705
3½ feet equal	60	7½ feet equal	275	13 feet equal	827
4 feet equal	78	8 feet equal	313	14 feet equal	959
4½ feet equal	99	8½ feet equal	353	15 feet equal	1101
5 feet equal	122	9 feet equal	396	20 feet equal	1958
5½ feet equal	148	9½ feet equal	461	25 feet equal	3050

TABLE OF POPULATION AND DISTANCES.

The following table shows the distances from Chicago, Ill., to all the leading cities in the United States, and gives the population of each according to the census of 1890. The small figures, placed before the names, show the number of thousands in round numbers. Thus: 11 Alton, Ill., means that the population of Alton, Ill., in 1890 was 11,000, etc.

Population.	Miles	Population.	Miles.
11 Alton, Ill.....	257	19 Cedar Rapids, Ia.....	219
20 Aurora, Ill.....	37	14 Clinton, Ia.....	138
9 Athens, Ga.....	895	22 Council Bluffs, Ia.....	488
66 Atlanta, Ga.....	794	38 Covington, Ky.....	307
34 Augusta, Ga.....	965	70 Cambridge, Mass.....	1020
11 Anderson, Ind.....	180	28 Chelsea, Mass.....	1018
9 Arkansas City, Kan.....	737	14 Chicopee, Mass.....	923
14 Atchison, Kan.....	490	11 Clinton, Mass.....	1041
12 Auburn, Maine.....	1214	13 Cumberland, Md.....	461
11 Augusta, Maine.....	1200	17 Concord, N. H.....	1017
3 Adams, Mass.....	880	59 Camden, N. J.....	823
10 Amesbury, Mass.....	1059	23 Cohoes, N. Y.....	837
9 Adrian, Mich.....	211	9 Corning, N. Y.....	688
12 Alpena, Mich.....	552	12 Charlotte, N. C.....	956
10 Ann Arbor, Mich.....	248	26 Canton, Ohio.....	367
14 Atlantic City, N. J.....	881	12 Chillicothe, Ohio.....	464
95 Albany, N. Y.....	833	297 Cincinnati, Ohio.....	293
18 Amsterdam, N. Y.....	800	262 Cleveland, Ohio.....	356
26 Auburn, N. Y.....	681	88 Columbus, Ohio.....	314
11 Asheville, N. C.....	796	11 Carbondale, Pa.....	782
28 Akron, Ohio.....	345	8 Carlisle, Pa.....	736
9 Ashtabula, Ohio.....	411	8 Chambersburgh, Pa.....	769
106 Allegheny City, Pa.....	467	21 Chester, Pa.....	825
26 Allentown, Pa.....	807	11 Columbia, Pa.....	727
31 Altoona, Pa.....	585	55 Charleston, S. C.....	1103
15 Austin, Texas.....	987	16 Columbia, S. C.....	1012
15 Alexandria, Va.....	881	8 Clarksville, Tenn.....	435
12 Appleton, Wis.....	185	29 Chattanooga, Tenn.....	642
10 Ashland, Wis.....	483	9 Chippewa Falls, Wis.....	331
27 Birmingham, Ala.....	784	12 Cheyenne, Wyo.....	1017
49 Bridgeport, Conn.....	968	107 Denver, Colo.....	1113
9 Brunswick, Ga.....	1065	17 Danbury, Conn.....	972
3 Boise City, Idaho.....	1874	12 Danville, Ill.....	124
16 Belleville, Ill.....	299	17 Decatur, Ill.....	184
21 Bloomington, Ill.....	126	29 Davenport, Ia.....	183
23 Burlington, Iowa.....	206	50 Des Moines, Ia.....	363
11 Baton Rouge, La.....	910	31 Dubuque, Ia.....	185
20 Bangor, Maine.....	1263	206 Detroit, Mich.....	284
9 Bath, Maine.....	1176	33 Duluth, Minn.....	477
15 Biddeford, Maine.....	1115	13 Dover, N. H.....	1103
11 Beverly, Mass.....	1034	10 Dunkirk, N. Y.....	560
449 Boston, Mass.....	1016	62 Dayton, Ohio.....	264
27 Brocton, Mass.....	1036	9 Delaware, Ohio.....	289
12 Brookline, Mass.....	1019	8 Danville, Pa.....	757
435 Baltimore, Md.....	853	9 Dunmore, Pa.....	802
13 Battle Creek, Mich.....	165	3 Deadwood, S. D.....	1059
28 Bay City, Mich.....	354	38 Dallas, Texas.....	963
11 Bute City, Mont.....	1054	11 Dennison, Texas.....	857
14 Beatrice, Neb.....	627	11 Danville, Va.....	806
12 Bridgetown, N. J.....	860	15 East St. Louis, Ill.....	284
8 Burlington, N. J.....	841	18 Elgin, Ill.....	37
35 Binghamton, N. Y.....	755	12 Elkhart, Ind.....	101
807 Brooklyn, N. Y.....	912	51 Evansville, Ind.....	284
256 Buffalo, N. Y.....	536	11 Everett, Mass.....	1019
3 Bismarck, N. D.....	854	38 Elizabeth, N. J.....	898
10 Bellaire, Ohio.....	465	31 Elmira, N. Y.....	606
10 Beaver Falls, Pa.....	438	11 East Liverpool, Ohio.....	460
11 Bradford, Pa.....	629	11 East Portland, Ore.....	226
9 Braddock, Pa.....	470	15 Easton, Pa.....	827
9 Butler, Pa.....	498	41 Erie, Pa.....	451
15 Burlington, Vt.....	954	10 El Paso, Texas.....	1588
18 Columbus, Ga.....	997	18 Eau Claire, Wis.....	321
11 Cairo, Ill.....	306	12 Ft. Smith, Ark.....	608
1100 Chicago, Ill.....	...	11 Freeport, Ill.....	121

Population.	Miles.	Population.	Miles.
36 Ft. Wayne, Ind.....	148	161 Louisville, Ky.....	297
12 Ft. Scott, Kan.....	534	22 Lewiston, Maine.....	1184
75 Fall River, Mass.....	1024	45 Lawrence, Mass.....	1044
22 Fitchburg, Mass.....	978	78 Lowell, Mass.....	1042
10 Framingham, Mass.....	1051	56 Lynn, Mass.....	1025
8 Frederick, Md.....	795	13 Lansing, Mich.....	245
10 Flint, Mich.....	269	7 Lyons, Ia.....	140
9 Flushing, N. Y.....	937	55 Lincoln, Neb.....	547
19 Findley, Ohio.....	232	3 Los Vegas, N. M.....	1244
23 Ft. Worth, Texas.....	952	11 Lansingburgh, N. Y.....	806
12 Fond du Lac, Wis.....	148	16 Lockport, N. Y.....	563
10 Greenwich, Conn.....	940	31 Long Island, N. Y.....	913
16 Galesburg, Ill.....	163	16 Lima, Ohio.....	208
9 Gardner, Mass.....	988	8 Lancaster, Ohio.....	346
25 Gloucester, Mass.....	1047	32 Lancaster, Pa.....	754
61 Grand Rapids, Mich.....	182	15 Lebanon, Pa.....	743
14 Gloversville, N. Y.....	799	12 Laredo, Texas.....	1386
9 Greenville, S. C.....	906	20 Lynchburg, Va.....	860
29 Galveston, Texas.....	1150	30 La Crosse, Wis.....	276
9 Green Bay, Wis.....	198	31 Mobile, Ala.....	827
8 Hot Springs, Ark.....	693	22 Montgomery, Ala.....	812
54 Hartford, Conn.....	1011	8 Manchester, Conn.....	1043
9 Hutchinson, Kan.....	693	22 Meriden, Conn.....	1068
9 Henderson, Ky.....	259	9 Middletown, Conn.....	978
28 Haverhill, Mass.....	1049	23 Macon, Ga.....	807
36 Holyoke, Mass.....	926	12 Moline, Ill.....	170
10 Hyde Park, Mass.....	1020	9 Madison, Ind.....	269
10 Hagerstown, Md.....	765	9 Marion, Ind.....	157
13 Hannibal, Mo.....	281	11 Michigan City, Ind.....	58
14 Helena, Mont.....	1539	12 Muncie, Ind.....	219
14 Hastings, Neb.....	644	9 Marsha Itown, Iowa.....	288
8 Harrison, N. J.....	904	11 Muscatine, Iowa.....	211
44 Hoboken, N. J.....	911	23 Malden, Mass.....	1021
5 Hempstead, N. Y.....	932	8 Marblehead, Mass.....	1033
11 Hornellsville, N. Y.....	628	14 Marlborough, Mass.....	1102
10 Hudson, N. Y.....	862	11 Medord, Mass.....	1021
3 Huntington, N. Y.....	947	9 Melrose, Mass.....	1023
18 Hamilton, Ohio.....	267	9 Milford, Mass.....	106
40 Harrisburg, Pa.....	716	13 Manistee, Mich.....	296
12 Hazelton, Pa.....	77	9 Marquette, Mich.....	401
28 Houston, Texas.....	1059	11 Menominee, Mich.....	238
10 Huntington, W. Va.....	527	23 Muskegon, Mich.....	198
106 Indianapolis, Ind.....	183	165 Minneapolis, Minn.....	420
11 Ishpeming, Mich.....	392	9 Mankato, Minn.....	432
9 Islip, N. Y.....	955	11 Meridian, Miss.....	937
11 Ithaca, N. Y.....	695	8 Moberly, Mo.....	351
11 Ironton, Ohio.....	427	44 Manchester, N. H.....	1118
17 Jacksonville, Fla.....	1030	12 Middletown, N. Y.....	925
13 Jacksonville, Ill.....	215	14 Mansfield, Ohio.....	294
24 Joliet, Ill.....	40	8 Marietta, Ohio.....	575
11 Jefferson, Ind.....	322	9 Marion, Ohio.....	268
21 Jackson, Mich.....	210	10 Massillon, Ohio.....	359
10 Joplin, Mo.....	555	21 McKeesport, Pa.....	483
163 Jersey City, N. J.....	911	11 Mahanoy City, Pa.....	793
6 Jamacia, N. Y.....	922	10 Meadville, Pa.....	371
16 Jamestown, N. Y.....	665	8 Mount Carmel, Pa.....	787
22 Johnstown, Pa.....	547	65 Memphis, Tenn.....	517
10 Jackson, Tenn.....	474	9 Manchester, Va.....	930
11 Janesville, Wis.....	91	14 Madison, Wis.....	138
18 Key West, Fla.....	1474	12 Marinette, Wis.....	262
8 Kokomo, Ind.....	140	205 Milwaukee, Wis.....	85
14 Keokuk, Ia.....	184	19 New Britain, Conn.....	1026
133 Kansas City, Mo.....	458	82 New Haven, Conn.....	915
18 Kalamazoo, Mich.....	142	14 New London, Conn.....	1036
21 Kingston, N. Y.....	916	18 Norwalk, Conn.....	953
23 Knoxville, Tenn.....	683	16 Norwick, Conn.....	103
26 Little Rock, Ark.....	628	21 New Albany, Ind.....	317
55 Los Angeles, Cal.....	2265	25 Newport, Ky.....	306
11 Leadville, Colo.....	1278	212 New Orleans, La.....	915
16 Lafayette, Ind.....	134	9 Natick, Mass.....	1001
14 Logansport, Ind.....	117	41 New Bedford, Mass.....	1020
10 Lawrence, Kan.....	499	25 Newton, Mass.....	1009
20 Leavenworth, Kan.....	484	14 Newburyport, Mass.....	1053
22 Lexington, Ky.....	384	16 North Adams, Mass.....	875

Population.	Miles.	Population.	Miles.
15 Northampton, Mass.....	908	12 Streator, Ill.....	94
12 Nebraska City, Neb.....	502	22 South Bend, Ind.....	86
20 Nashua, N. H.....	1037	38 Sioux City, Ia.....	517
17 New Brighton, N. Y.....	922	12 Shreveport, La.....	815
23 Newburgh, N. Y.....	924	31 Salem, Mass.....	1041
18 Newtown, N. Y.....	918	40 Somerville, Mass.....	1018
1513 New York City, N. Y.....	912	9 Spencer, Mass.....	946
14 Newark, Ohio.....	359	44 Springfield, Mass.....	918
10 Nanticoke, Pa.....	797	47 Saginaw, Mich.....	310
12 New Castle, Pa.....	559	150 St. Paul, Minn.....	409
20 Norristown, Pa.....	832	12 Stillwater, Minn.....	415
20 Newport, R. I.....	1061	14 Sedalia, Mo.....	460
76 Nashville, Tenn.....	444	22 Springfield, Mo.....	521
35 Norfolk, Va.....	957	53 St. Joseph, Mo.....	469
10 Ottawa, Ill.....	84	452 St. Louis, Mo.....	280
14 Ottumwa, Ia.....	281	7 Santa Fe, N. M.....	1327
10 Owensborough, Ky.....	329	12 Saratoga Springs, N. Y.....	856
141 Omaha, Neb.....	492	20 Schenectady, N. Y.....	816
12 Ogdensburgh, N. Y.....	792	9 South Hampton, N. Y.....	1002
22 Oswego, N. Y.....	677	88 Syracuse, N. Y.....	686
14 Oyster Bay, N. Y.....	935	19 Sandusky, Ohio.....	292
11 Oil City, Pa.....	601	32 Springfield, Ohio.....	301
15 Ogden, Utah.....	1523	14 Steubenville, Oh.....	464
23 Oskosh, Wis.....	165	75 Scranton, Pa.....	801
10 Pine Bluff, Ark.....	633	15 Shamokin, Pa.....	779
25 Pueblo, Colo.....	1092	16 Sheuandoah, Pa.....	742
12 Pensacola, Fla.....	972	11 South Bethlehem, Pa.....	817
41 Peoria, Ill.....	161	9 Steelton, Pa.....	720
13 Paducah, Ky.....	381	11 Sioux Falls, S. D.....	596
37 Portland, Maine.....	1128	33 San Antonio, Texas.....	1222
10 Peabody, Mass.....	1039	45 Salt Lake City, Utah.....	1561
18 Pittsfield, Mass.....	865	43 Seattle, Wash.....	2318
14 Port Huron, Mich.....	335	20 Spokane Falls, Wash.....	1921
10 Portsmouth, N. H.....	1092	17 Sheboygan, Wis.....	191
9 Plattsmouth, Neb.....	487	12 Superior, Wis.....	546
10 Peekskill, N. Y.....	934	31 Terre Haute, Ind.....	178
22 Poughkeepsie, N. Y.....	903	31 Topeka, Kan.....	525
9 Piqua, Ohio.....	241	26 Taunton, Mass.....	1050
13 Portsmouth, Ohio.....	472	61 Troy, N. Y.....	833
47 Portland, Ore.....	2296	11 Tiffin, Ohio.....	246
1100 Philadelphia, Pa.....	822	82 Toledo, Ohio.....	243
9 Phoenixville, Pa.....	850	8 Titusville, Pa.....	619
10 Plymouth Pa.....	781	36 Tacoma, Wash.....	2318
239 Pittsburgh, Pa.....	468	44 Utica, N. Y.....	743
11 Pittstown, Pa.....	827	9 Vernon, Conn.....	1047
13 Pattstown Pa.....	862	9 Vincennus, Ind.....	235
14 Pottsville, Pa.....	895	14 Vicksburg, Miss.....	776
28 Pawtucket, R. I.....	1123	62 Wilmington, Del.....	845
132 Providence, R. I.....	1120	29 Waterbury, Conn.....	1002
9 Paris, Texas.....	867	11 Windham, Conn.....	1013
23 Petersburg, Va.....	920	231 Washington, D. C.....	811
13 Portsmouth, Va.....	1002	24 Wichita, Kan.....	686
9 Parkersburgh W. Va.....	510	19 Waltham, Mass.....	1026
32 Quincy, Ill.....	262	10 Westfield, Mass.....	880
17 Quincy, Mass.....	1025	11 Weymouth, Mass.....	1031
24 Rockford, Ill.....	93	14 Woburn, Mass.....	1028
14 Rock Island, Ill.....	181	85 Worcester, Mass.....	972
17 Richmond Ind.....	229	13 West Bay City, Mich.....	355
8 Rockland, Maine.....	1224	19 Wlnona, Minn.....	306
134 Rochester, N. Y.....	605	15 Watertown, N. Y.....	724
15 Rome, N. Y.....	724	13 West Troy, N. Y.....	834
13 Raleigh, N. C.....	1070	20 Wilmington, N. C.....	1143
59 Reading, Pa.....	761	38 Wilkes Barre, Pa.....	803
82 Richmond Va.....	927	28 Williamsport, Pa.....	800
16 Roanoke, Va.....	725	21 Woonsocket, R. I.....	1034
21 Racine, Wis.....	61	15 Waco, Texas.....	1020
27 Sacramento, Cal.....	2267	35 Wheeling W. Va.....	460
16 San Diego, Cal.....	2347	9 Watertown Wis.....	130
300 San Francisco, Cal.....	2327	10 Wausau, Wis.....	295
20 San Jose Cal.....	2309	8 Xenia Ohio.....	281
6 Santa Rosa, Cal.....	2409	33 Yonkers N. Y.....	961
16 Stanford, Conn.....	945	34 Youngstown Ohio.....	422
43 Savannah Ga.....	1088	21 York, Pa.....	918
25 Springfield, Ill.....	185	21 Zanesville, Ohio.....	383

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